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The

# CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

3 2 4 5  
LXXXVII

APRIL 18, 1942

Annual Subscription (with  
Diary) 25/- Single Copies 6d.

INTERESTING  
EVENTS



IN PHARMACY  
NO 12

## PIERRE & MARIE CURIE

1859—April 19, 1906

1867—1934

The great historical unions of mankind are rare, and one of the rarest is that of Pierre and Marie Curie. This wonderful alliance, of genius, of unique happiness, and of France and Poland, produced the magic discovery—Radium, which itself gave birth to a new science and a new philosophy.

## BURGOYNE BURBIDGES

Established 1741. & COMPANY LIMITED. LONDON. E.6



Pay homage on the anniversary of their greatest tragedy, April 19th, 1906, when Pierre Curie was killed and a wonderful woman continued alone.



*a*  
**SOUND  
LINE**

# *Euthymol*

**TOOTH PASTE**

**NO REDUCTION  
IN PRICE  
NO REDUCTION  
IN PROFIT  
NO SMALL SIZES  
ALWAYS ON THE P.A.T.A.**

**PARKE, DAVIS & CO.,  
L O N D O N W.I.,**



# THE CHEMICAL ACTION OF 'MILTON' ON MUSTARD GAS

Pure "Mustard Gas" is an organic chemical compound known as 2,2'-Dichlorodiethyl Sulphide, and its constitution is represented by the formula,  

$$S(CH_2CH_2Cl)_2$$

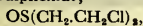
It is an almost colourless oil with a faint odour reminiscent of that of garlic or mustard. It has a boiling point of 217° C. at normal atmospheric pressure and, on cooling, the liquid freezes at 4.4° C. and crystallises in long colourless prisms. Mustard Gas is ordinarily a very stable compound, and may be described as the most aggressive organic chemical known towards human tissues.

The public have received detailed instructions from the Ministry of Home Security through the official handbooks and from the Local Authorities regarding the steps they should immediately take, unfortunately, they become contaminated by mustard gas through enemy action. The importance of members of the public familiarising themselves with, and carrying out the procedure recommended officially for avoiding the effects of, mustard gas contamination cannot be too strongly emphasized.

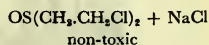
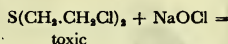
See Air-Raid Precautions Handbook No. 1 (2nd Ed. 1941). Personal Protection against Gas, page 61—under the heading of Anti-Gas Treatment of Persons.

Any additional and convenient method which can be recommended with confidence for avoiding or minimising the effects of mustard gas contamination is highly important. "Milton" is a readily available material, the value of which for effectively cleansing the skin which has become contaminated with Mustard Gas has been conclusively demonstrated.

"Milton" is a solution of electrolytically-prepared sodium hypochlorite (NaOCl) which reacts rapidly with either pure or crude Mustard Gas at the ordinary temperature, converting it quantitatively into the non-toxic colourless crystalline 2,2'-dichlorodiethyl Sulphoxide,



m.p. 110° C., according to the following equation:

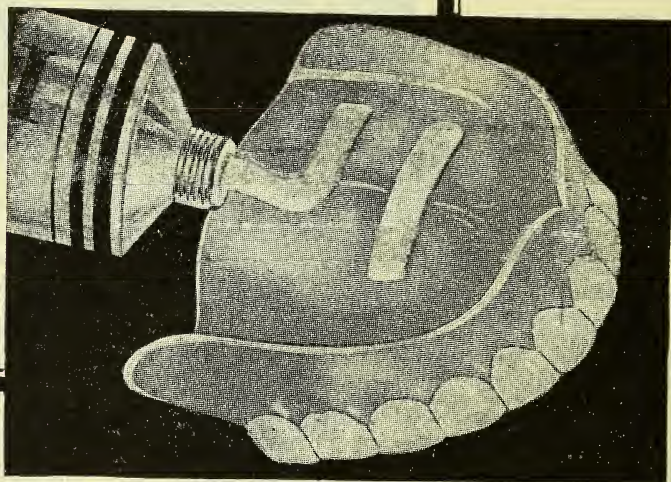


Applied rapidly and in proper fashion, the effectiveness of "Milton" against skin contamination can be guaranteed. Garments which are contaminated with Mustard Gas should be discarded at once and treated not with "Milton" but by the methods and at places which the Authorities have provided.

Any treatment applied to the skin which has been contaminated must be *immediate* as well as thorough. If "Milton" is available, it can be used with confidence. After removal of clothing (if necessary) the part affected should be wiped without spreading the area of contamination, using cotton wool or other suitable material which can then be discarded (burnt, or left for some time in a solution of "Milton") so as to get rid of as much of the Mustard Gas as possible. Without delay the affected part is swabbed gently but copiously with full-strength "Milton," the swabbing being continued for about 15 minutes, and then with "Milton" diluted with about four times its volume of ordinary tap water. Continue the gentle swabbing with this dilution at half-hour intervals three or four times. It has been found suitable to treat the affected part finally with 'calamine' lotion and bandage lightly.

If, unfortunately, it has not been found possible to apply the treatment within five minutes, a light mustard-gas burn may ensue after some four to six hours. If this should have happened, the treatment may nevertheless safely be continued at intervals with diluted "Milton" (1 in 5) until the healing process is established. The use of "Milton" as suggested, will diminish the inflammatory or destructive effect and accelerate healing.

The above may be described as home or emergency treatment for the skin and can be recommended in the great majority of cases.



### DENTISTS SAY:

I must inform you of the wonderful success of Dentessive. It has come to stay, I think, in Dentistry. There is nothing but 'praises' by patients. I have given it all the tests and can say it is wonderful.

(Signed) W..... T....., L.D.S.

### PATIENTS SAY:

Dentessive is such a great improvement on all fixative powders that I shall always regard you as one of the 'benefactors of the human race!'

(Signed) A..... O..... C.....

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THE IMPROVED DENTURE FIXATIVE

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BY DOCTORS**

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FOR FEMININE HYGIENE

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WHICH NEVER  
STOPS**

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Consistent, dignified advertising at all times has achieved this proud result. Ample window and counter display material is still available for all Pharmacists.

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**FOR FEMININE HYGIENE**

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BUT WITHOUT MORPHINE'S DISADVANTAGES

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## INDEX TO ADVERTISERS

Albro Fillers & Engineering Co., Ltd.	14
Armour Laboratories, The	18
Aspro, Ltd.	xii
Battles, Ltd.	18
Beatson, Clark & Co., Ltd.	16
Bell, John, Hills & Lucas, Ltd.	Leader Page
Biddle, Sawyer & Co., Ltd.	Cover iv
Bombay Mills	Col. Supp.
British Commercial Chemicals & Supplies	Col. Supp.
British Schering, Ltd.	5
Brooks & Warburton, Ltd.	xiii
Burgoyne Burbidges & Co., Ltd.	Front Cover
Burrough, James, Ltd.	Leader Page
Burroughs Wellcome & Co.	19
Calthorpe, M., & Co.	x
Cannon Rubber Manufacturers, Ltd.	5
Carillon Press, Ltd.	11
Carter, H. W., & Co., Ltd.	xiv
Cater, Stoffell & Fortt, Ltd.	xli
Clemon Manfg. Co., Ltd.	18
Cox, Arthur H., & Co., Ltd.	8
Dales Aspirin Co.	11
Daniel, Richard, & Son, Ltd.	11
De Witt, E. C., & Co., Ltd.	ix
Evan Williams Co., Ltd.	9
Evans Sons Lescher & Webb, Ltd.	3
Ferber, Robert, Ltd.	viii
Foot, H., & Co.	xiv
Freudentheil, Smith & Co.	Leader Page
Gardner, W., & Sons (Glos.), Ltd.	14
Gelatin Products, Ltd.	xiii
Genatosan, Ltd.	ii

(continued overleaf)

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BRITISH MADE

ANTI-COLIC · ODORLESS · TASTELESS · HYGIENIC

Here is a Teat embodying all the selling points the ideal teat should have!

## NEAREST TO NATURAL FEEDING

- Collar ensures firm grip on bottle—cannot be pulled off by the baby.
- Ball Top—one hole perforation ensuring steady flow.
- Buffer Shoulder protects the baby's mouth.
- Tab enables teat to be slipped over bottle instantly with minimum handling.

In addition . . . the 'Modern' Teat has been designed to meet the needs of both mother and baby—and, what is vitally important these days, the teats last longer. Each teat is packed in cardboard shell completely enveloped in cellophane and each one is tested and passed as perfect before it leaves the factory.

Obtainable from your usual wholesaler. Manufactured by

THE CANNON RUBBER MANUFACTURERS LTD LONDON, N.17



**INDEX—(contd.)**

Graesser, N. H. ....	iv	Niblett, C. P. ....	
Graesser Salicylates, Ltd. ....	iv	Olley, C., & Sons, Ltd. ....	Leader Page
Granto Labs., Ltd. ....	ix	Ormerod Engineers, Ltd. ....	
Grosse, J. ....	10	Oxo, Ltd. ....	
Hall, Forster & Co., Ltd. ....	Leader Page	Parke, Davis & Co. ....	Cover
Harwoods Laboratories, Ltd. ....	6	Perken, Son & Co., Ltd. ....	
Henshaw, J. L. ....	Col. Supp.	Pifco Ltd. ....	Leader Page
Howards & Sons, Ltd. ....	i	Potter & Clarke, Ltd. ....	
Imperial Patent Wadding Co., Ltd. ....	xiv	Proprietary Articles Trade Association ....	
International Laboratories, Ltd. ....	x	Rendell, W. J., Ltd. ....	
Jeffreys, Miller & Co., Ltd. ....	11	Riley, J., & Sons, Ltd. ....	
Kearsley, C. & G., Ltd. ....	Leader Page	Roberts' Patent Filling Machine Co., Ltd. ....	
Kellys, J., (London), Ltd. ....	ii	Salter, B., & Son ....	
Kemball, Bishop & Co., Ltd. ....	iii	Samuelson, P., & Co. ....	Leader Page
Lax & Shaw, Ltd. ....	15	Scott & Bowne, Ltd. ....	Col. Supp.
Lennon, Ltd. ....	ii	Scurr, C. A. ....	
London Capsule Co. ....	16	Simpkin, A. L., & Co., Ltd. ....	
Mather, Wm., Ltd. ....	10	Singha, The Dr., Co., Ltd. ....	
Matthews & Wilson, Ltd. ....	vi	Splendor, Ltd. ....	
Matthews Laboratories, Ltd. ....	Leader Page	Sturge, John & E., Ltd. ....	
Medico-Biological Laboratories, Ltd. ....	xvi	Thackray, Chas. F., Ltd. ....	
Merz & Co., Ltd. ....	12	Thompson & Capper Wholesale, Ltd. ....	
Midgley & Parkinson, Ltd. ....	Leader Page	Townsend, J., & Sons. ....	
Milton Proprietary, Ltd. ....	1	Veno Drug Co., Ltd. ....	
Momand, Don S., Ltd. ....	2	Warwick Bros., Ltd. ....	
Multishave, Ltd. ....	18	Watford Chemical Co., Ltd. ....	
Mysore, Trade Commissioner for, in London. ....	vi	Webster, Isaac, & Sons, Ltd. ....	
		Whiffen & Sons, Ltd. ....	Cover
		Zimmermann, C., & Co., Ltd. ....	

**A NOTE TO OVERSEAS BUYERS**

*The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.*

# We are explaining your difficulties

THE increasing difficulty of supplying 'Sero-calcin' to all your customers, owing to the greater demands by munitions factories, hospitals, schools and the export trade, are being explained in our present advertising campaign. We are making it clear that you are not to blame for any shortage. To ease matters we are appealing to

customers to return all empty phials, caps and containers.

Can you help us by making a personal request to your customers for these returns? The hygroscopic characteristics of 'Sero-calcin' preclude the use of substitute packs, and supplies are limited. We will gladly pay postage on all packs you can return.

**'SERO-CALCIN' PREVENTS COLDS**

HARWOODS LABORATORIES, LTD., RICKMANSWORTH ROAD, WATFORD, HERTS.





# Sovereign Remedies

Outstanding efficacy is the sole assurance of satisfactory sales. This unquestionable truth is seen in the unrelenting demand for Venos, Eno and Thermogene Products. The public estimate of these sovereign remedies is unassailable. So—show them! Carry ample stocks! Order ahead! Protect yourself against delay in deliveries and sudden demands due to circumstances beyond our control. And if you need display material kindly write at once to the

## VENO DRUG CO. LTD.

CHESTER ROAD, MANCHESTER 16



*The name to remember for*

**TABLETS**  
AND **PILLS**



*The Specialists and Manufacturing Chemists*  
for

**OVER A CENTURY**

**ARTHUR H. COX & CO. LTD. BRIGHTON**

# *The Only Fair Way . . .*

We are well aware of the many problems that shortage of supplies create for all of us; we also know that the only fair method of distribution must be based on some form of rationing.

By taking the easy way out we could dispose of our permitted quota through a limited number of channels, but this would be most unfair and inconsiderate to our old customers who have always supported us in the past.

## **EVERY CUSTOMER GETS A FAIR SHARE**

We have therefore evolved an elaborate system of distribution which definitely ensures that every customer, **LARGE OR SMALL, WHOLESALE OR RETAIL**, receives his fair share of the available supplies.

## **PLEASE RECIPROCATE**

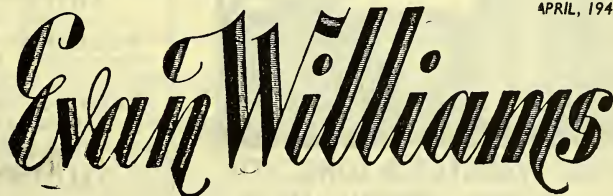
This entails an enormous amount of detail work. It is worth it, for we take the long view, i.e. that it is a wise policy to do one's utmost to help old customers.

Our plan, of course, largely fails unless Chemists are equally discriminating in their distribution and ration supplies to their regular customers. The shop-counter-crawler with ample leisure for shopping should be discouraged in the interests of those women who are doing a war job which limits their opportunities for shopping.

## **REGULAR CUSTOMERS DESERVE YOUR HELP AND CONSIDERATION**

In our advertisements the reason for the present shortage is explained, and women are advised, as far as conditions permit, to go to one regular retailer for their share of the limited supply.

APRIL, 1942



SALES DEPARTMENT, 33-35 HIGH STREET, ACTON, W.3



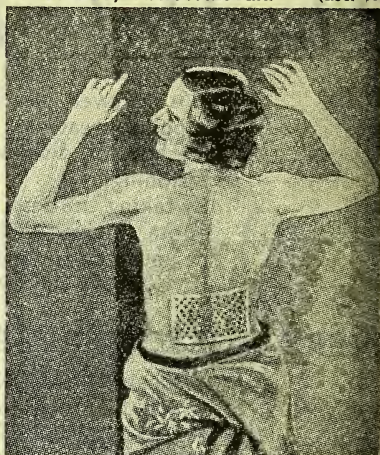
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 CLINICAL REGD.  
 The position of the Mercury column is at once perfectly plain. Red markings above 00.4.

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ZINC OXIDE and RUBBER ADHESIVE PLAISTER  
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 STAINLESS STEELWARE

Specialists in modern equipment for manufacturers i.e., Funnels, Buckets, Jugs, Mixing Containers, Measures, Perculators, Bogies, etc., etc.

Suppliers of Stainless Steel utensils, at prices which enable the user to employ them in place of other metals as an economical proposition.

The use of Stainless Steel equipment, designed on modern principles, enables overhead costs to be reduced and makes for more convenient and better working conditions.



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For  
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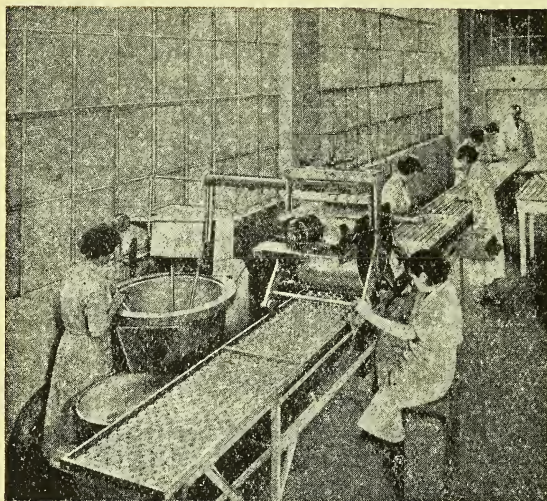
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Telephone: GARSTON 1511

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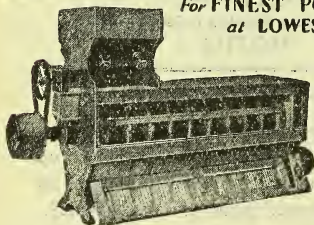
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Many of our activities are concerned with furnishing the needs of government contracting departments, and we are also endeavouring to fulfil export orders to help to import the essential commodities from abroad, so aiding the war effort.

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**Beatson, Clark & Co. Ltd.**

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**ROTHERHAM YORKSHIRE  
ESTABLISHED 1751**

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For Glass, Stone, and Tin Bottles. Fills all sizes from drachm to quart —long, short or sprinkler neck.

**Clean & Rapid  
No Over Filling  
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Write for Particulars

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Makers of every description of Bottle Filling and Shallow Jar and Tin Filling Machine for the Chemists' use  
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**PRODUCTS PREPARED FROM FRESH**  
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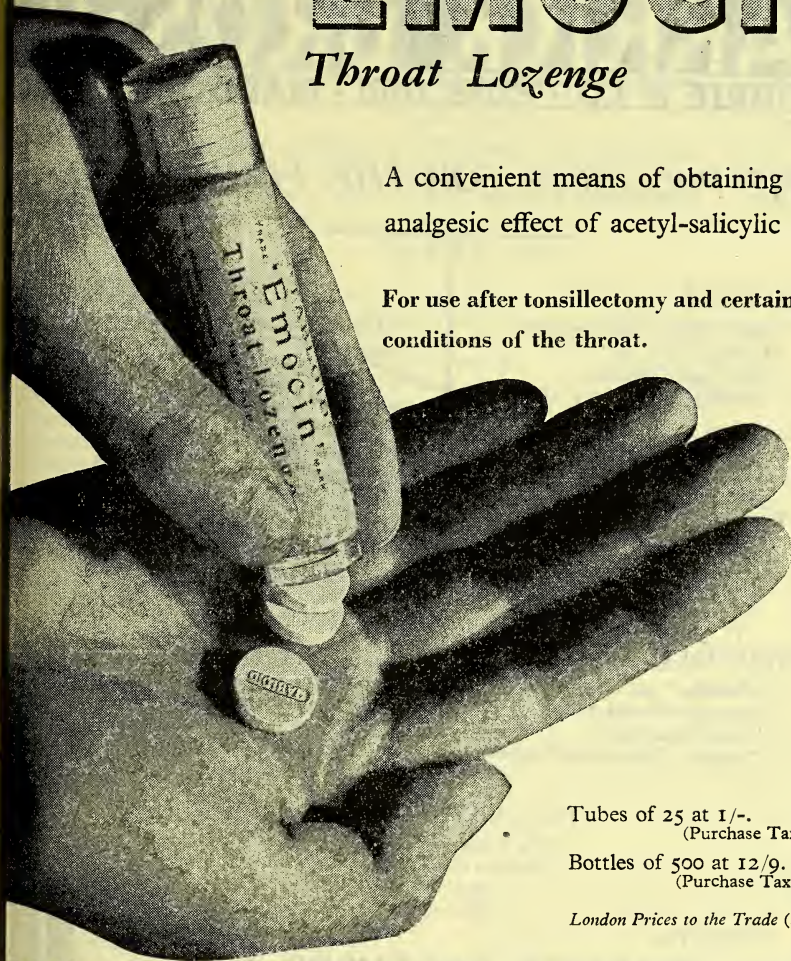
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## CONTENTS

	Page		Page
Births .. .. .	439	Editorial Articles :—	
Budget Changes ..	444	Further Research	
Chemists' Unique Position ..	436	Developments ..	441
Collecting Broom ..	446	Council Election	
Coming Events ..	443	Controversy ..	442
Commercial Notes ..	451	Coupon Accounts ..	443
Company News ..	431	War Distress Fund	
Correspondence :—		Loans ..	443
Letters ..	452	Legal Reports ..	430
Deaths ..	439	Marriages ..	439
Lease-Lend Drugs ..	444	New Zealand Botanicals	437
		News of the Week ..	427
		Personalities ..	439
		Pharmaceutical Preservatives ..	433
		Recent Wills ..	439
		Thermostatic Water	
		Mixers ..	445
		Topical Reflections ..	432
		Trade Marks ..	434
		Trade Notes ..	438
		Trade Report ..	447
		Women Pharmacists' Association ..	433

## NEWS OF THE WEEK

**Brush Industry Census.**—The Board of Trade is making a review of the brush industry and seeks information from manufacturers who employ at the present time more than ten employees. Any such manufacturer who has not made a return should apply to the Industrial and Export Council, Board of Trade, I.C.I. House, Millbank, London, S.W.1.

**Liquid Paraffin.**—Arrangements have been made whereby chemists will only be able to obtain liquid paraffin, B.P., from their wholesalers on written orders endorsed with a signed undertaking (i) not to resell by wholesale except to doctors, nursing homes and ships for medicinal stores; (ii) to restrict sales to medicinal use. These conditions apply to paraffin liq., B.P., and any preparations thereof. It is hoped that the part to be played by wholesalers will result in a better supply being available for the retail chemist. It must be clearly understood that breaches of the undertaking may result in stoppage of supplies altogether. The commercial white oils and toilet paraffins are not affected.

**Statutory Committee Regulations.**—The Lords of the Privy Council have confirmed regulations as to the procedure to be followed by the Statutory Committee of the Pharmaceutical Society of Great Britain, in the exercise of the jurisdiction conferred on it by the Pharmacy and Poisons Act, 1933, and the Pharmacy and Medicines Act, 1941.

**Packaging Industry Committees.**—Over 100 trade committees have been formed to work in association with the packaging subcommittee of the British Standards Institution (see *C. & D.*, January 31, p. 129). The committees will make recommendations on whether commodities are essential; whether pre-packing is necessary; the minimum range of pre-packed sizes that will suffice to meet the public's minimum need; the largest minimum sizes practicable; the most economical packing materials; and the smallest amount of packaging material required for each size decided upon. It is expected that there will be further deterioration in the quality of paper used for boxes, cartons



and bags; considerable substitution of black plate for tinplate; and decoration cut to a minimum to save labour and conserve pigments. Collapsible tubes, which are prohibited for cleansing and polishing pastes and creams, are at present being allowed for tooth-pastes, the sixpenny sizes of which are, however, being eliminated. The suitability of black plate for medicinal preparations and essential oils is being individually considered.

**Control of Coffee Essence.**—The Minister of Food has made an Order, which came into force on April 15, to control by licence the manufacture and pre-packing of coffee essence. Coffee essence means any product (in dry or liquid form) consisting wholly or mainly of any essence, extract or concentration of coffee or of coffee and chicory. The licence will contain particulars of the product and will specify the maximum price at which a manufacturer or pre-packer may sell the product to a retailer, and the maximum price at which a retailer is permitted to sell to the public. These prices must in every case be agreed with the Ministry. The Order requires manufacturers and pre-packers to mark on containers or wrappers the retail prices at which the products are to be sold. This requirement relates to sales by manufacturers or pre-packers, wholesalers and retailers after June 1, July 1, and August 1 next respectively. A form of application for a licence may be obtained from the Coffee Branch, Mount Royal, Colwyn Bay.

**Purchase Tax.**—The Commissioners of Customs and Excise have reviewed the position of labels and similar articles under the purchase tax and have decided that, from April 13, all goods of this kind are chargeable, except articles of the following description when supplied fully printed (i.e. not intended to be completed in manuscript or otherwise): (a) Brand labels, brand tags, brand seals and brand tickets; (b) labels, tags, seals and tickets to be attached by a manufacturer or merchant to his goods solely for indicating the grade, type, contents or analysis, or as instruction labels; (c) adhesive labels for correspondence or goods solely for advertisement purposes. All other labels, tags, gummed tickets, pin tickets, clip tickets and similar articles are chargeable with tax, including, e.g.: (a) Unprinted labels, tags, etc., of any shape or size; (b) labels, tags, etc., printed for use as addressing labels; (c) labels for attachment to correspondence, invoices, forms or other stationery (except

fully-printed labels solely for advertisement purposes) such as: Notification labels marked "enclosure," "account due," etc.; sealing labels for envelopes, parcels, etc.; economy labels; seals for legal and other documents; and (d) other labels, tags, etc., whether fully or partially printed, such as: Price, size and other marking tickets, labels, tags, etc., works or job tags, and repair tags, wagon labels and bale tags.

**In the Courts.**—At Birmingham, recently, Ernest Reynolds, M.P.S., was fined £20 for stealing quantities of milk and glycerin belonging to a local hospital.—At Old Street, London, police court, on April 7, Alfred E. Tovey was bound over on a charge of stealing a bottle of syrup and a bottle of liquid paraffin from his employers, C. J. Hewlett & Son, Ltd., manufacturing chemists, London, E.C.2.

**Petrie Trust Bursary.**—The annual competition for the Petrie Trust Bursary will be held in Aberdeen on April 22; candidates will be notified as to time and place. The subjects of examination are dispensing, pharmacy and business methods. Candidates must be indentured apprentices, and have served at least three years with a pharmacist in the City or County of Aberdeen, and may have attended evening classes in chemistry, botany and physics. Entries will be accepted up to April 18 by Mr. Hugh Hughson, 306 Clifton Road, Aberdeen, from whom further particulars may be obtained.

**Association of Pharmaceutical Employees.**—The annual meeting of the Leeds Branch of the Association was held on March 25, Mr. L. Faller presiding. The secretary's report indicated the extent and growth of the Branch's activities, and noted that the organisation had been fully recognised in Leeds by liaison with the local branch of the National Pharmaceutical Union and by support from the local branch of the Pharmaceutical Society. The need was emphasised for employees to take an active interest in pharmaceutical affairs generally. Mr. Faller gave a report, as one of the A.P.E. representatives, on the work of the local War Emergency Committee. It was his opinion that the local committee had been scrupulously fair. The work of the committee emphasised the need for proper employee representation. Steps were taken to co-ordinate A.P.E. activities in the area. The attitude and policy of the Association towards the elections of the Pharmaceutical Society was endorsed. The

following were elected officers: *Chairman*, Mr. R. C. Laws; *Vice-chairman*, Mr. P. M. Forrest; *Secretary*, Mr. M. Jackson.

**Discussion on Committee's Report.**—At a meeting of the Blackpool branch of the Pharmaceutical Society, on March 24, Mr. J. F. McNeal (a member of Council) reviewed the report of the Committee of Inquiry. He mentioned that more and more pharmacists were being employed in hospital dispensaries; they ranked as pharmacists and not as dispensers. Pharmacists, he declared, must consider the possibility of State pharmacies and whether they wanted free competition or limitation. MR. J. H. FRANKLIN, also a member of the Council, said that he disagreed with the Council decisions very frequently, and that the Council had not taken members into its confidence. A Bill for pharmacy should be promoted. In the discussion which followed members informed Mr. McNeal that no pharmacists were employed in five R.A.F. dispensaries and at least one Army dispensary in Blackpool. The secretary said that the Service men were having to visit chemists for treatment, for which they had to pay. Mr. McNEAL suggested that as there were two pharmacist members of the Town Council they should attempt to stop the supply of baby foods and medicines by clinics to persons who could afford to pay and to try to arrange a scheme whereby a chit could be given by the medical officer for the supply of these goods by the chemist. Mr. IDDON denounced the Council of the Society for their continued policy of 'appeasement.' A vote of thanks to Messrs. McNeal and Franklin was proposed by MR. IDDON and seconded by MR. CARDWELL.

**Eire Packet Tax Lifted.**—The Eire Government has removed the packet tax on disinfectants, insecticides and verminicides for six months.

**Irish Drug Association.**—Mr. F. X. Meagher (president) was in the chair at a meeting of the committee of the Irish Drug Association held on March 30. Mr. A. McSweeney, Cork, was welcomed on the occasion of his first attendance at a committee meeting. A discussion took place on the Trade Union Act, 1941, under which the Association has applied for registration and a negotiation licence, and steps have been taken to comply with the regulations requiring a deposit. The Association will be in a position, when the arrangements are completed, to negotiate on matters concerning wages and conditions of employment. A request by the Association to the

manufacturers of rose-hip syrup in Dublin to confine their product to chemists has been refused. Every effort is being made to induce the manufacturers of chemists' lines who are rationing their products to confine their preparations to pharmaceutical chemists and registered druggists. The committee discussed matters arising out of chemists tendering Local Government contracts and issued an instruction on the subject for general guidance.

**St. Joseph's Young Priests Society.**—There was a good attendance at the second annual meeting of the pharmacy branch of the St. Joseph's Young Priests Society held at 23 Merrion Square, Dublin, recently. Mr. F. X. Meagher (president) occupied the chair. The Committee's report stated that membership was on the up grade, and two new works had been established, namely the St. Albert's Medical Guild, and a special drive to get pharmaceutical students into the Branch. Due to the increase in subscriptions, funds had now been made available for the maintenance of seven students for the priesthood at College. The Guild was inaugurated to help the missionaries by sending them supplies of some of the medicines and dressings so vitally necessary to their work. This special task has been very capably handled by Mr. M. Davitt Walsh and his energetic sub-committee. They have collected and forwarded to Irish missionaries drugs and dressings to the wholesale value of almost £100. Referring to Cork and Limerick the report stated that both centres had improved their positions, as the balance sheet showed. In Limerick the organising was in the competent hands of Mr. Wm. Hanley, while the work of the branch in Galway was in the care of Miss Laura Cunniffe and Mr. J. D. Whelan.

Mr. Malachi Leonard (P. C. Cahill & Co.) proposed the adoption of the report and statement of accounts and Mr. E. MacSweeney, Cork, seconded. The Rev. Coleman MacMahon, C.S.Sp., gave an interesting account of his experiences on the mission field in Kenya, and the Rev. T. J. Sheridan, S.J., described the work of the missions in China. The meeting was also addressed by the Rev. Father Gilber, O.F.M., the Rev. Father Doherty, O.M.I., the Rev. Aubrey Gwynn, S.D., and the Very Rev. M. P. Cleary, O.P. The visiting clergy and the members of the committee were entertained to tea at the conclusion of the meeting by Miss K. Fogarty and the other lady members of the committee.



## LEGAL REPORTS

**Pharmacy Act Prosecution.**—At Brentford Police Court recently, Taylors (Cash Chemists), London, Ltd., were summoned for selling at 81 Kingsley Road, Hounslow, a bronchial elixir which contained morphine, the sale not being by or under the supervision of a registered pharmacist. For the defence it was stated that the offence had been committed in error. A fine of £2 was imposed.

**Phosaguin Tonic Wine.**—At Slough, on April 8, Frederick Robert Page, stated to be the proprietor of the Tonic Wine Co., London, W., was charged with selling a drug, Phosaguin Tonic Wine, bearing a label calculated to deceive. According to analytical evidence, the liquid consisted of 99.83 per cent. water, 0.04 per cent. quinine, 0.04 phosphoric acid and 0.09 colouring matter. Defendant undertook to withdraw from the market immediately any outstanding bottles of the tonic. A fine of £20 was imposed.

**Validity of an Agreement.**—The Dental Manufacturing Co., Ltd., Great Portland Street, London, W., successfully brought an action before Mr. Justice Atkinson in the King's Bench Division on March 25. They sued Harrison & Son (Hanley), Ltd., chemical manufacturers, Hanley, Mr. Eric F. L. Kay, Prenteg, near Portmadoc, and Dr. J. C. Adriaansen, Amsterdam, claiming that an agreement of October 1937, to which plaintiffs and all the defendants were parties, was still in force. Under the agreement the plaintiffs were given the exclusive right to manufacture artificial teeth—but not jacket crowns—from porcelain made by Messrs. Harrison according to a secret formula owned by Dr. Adriaansen and Mr. Kay. Defendants denied that the agreement was ever valid, or that it now subsisted.

Mr. Justice Atkinson said that after the agreement was signed the plaintiffs spent £2,677 in preliminary publicity, and the sale of the teeth, registered under the name "Lumitex," made from the particular product concerned, rose from 40,000 in 1938 to more than half-a-million last year. The appropriate royalties to the owners of the formula were paid into Dr. Adriaansen's account in a London bank. After the outbreak of war, when communication with Dr. Adriaansen ceased, plaintiffs were asked to pay all the royalties to Mr. Kay, but there was a difficulty because Dr. Adriaan-

sen's share had to be paid to the Custodian of Enemy Property. Defendants later alleged breach of the agreement by the plaintiffs, and contended that the bargain was at an end. However, Messrs. Harrison wisely continued to supply porcelain to the plaintiffs, so that no practical difficulty had arisen up to date.

His lordship held that the plaintiffs had established their case, and granted the declaration for which they asked, with costs.

**Limitation of Supplies.**—At Aberdeen, on April 8, Henry George Stephen, sole partner of Alex. Stephen & Son, wholesale druggists, was fined £500 for contravention of the Limitation of Supplies (Miscellaneous) (No. 5) Order. The prosecution stated that between December 1, 1940, and May 31, 1941, controlled goods in three classes had been sold to the value of £457 instead of £65 according to quota, £68 instead of £18 odd, and £8,465 instead of £169. The last-mentioned figure was for cosmetic articles. For the defence it was stated that there was no suggestion that the goods were improperly obtained, and owing to the nature of the business it was difficult to find out exactly how much of the business was being done in controlled articles and how much was not. The turnover of the business was in excess of £70,000 and the amount of the goods subject to Control Orders was calculated to be in the neighbourhood of £8,000.

**Injunction.**—Mr. Justice Uthwatt, in the Chancery Division of the High Court, London, on April 14, had before him a motion by Coty (England), Ltd., Stratford Place, London, W.1, for an injunction restraining Henry Cohen (trading as "Conn"), The Market, Swindon, from infringing their trade mark "Coty," and passing off as goods of the plaintiffs, rouge not of their manufacture, or merchandise under the name of "Coty."

Counsel for plaintiffs stated that Mr. Cohen had now agreed to treat the motion as the trial of the action, and he would submit to an injunction. There would be an inquiry as to damages, the costs of which would be reserved pending result of the inquiry.

It was pointed out by counsel for defendant that Mr. Cohen was an innocent victim, and he was prepared to do what was right in the matter.

## COMPANY NEWS

**WM. MCCALLISTER, LTD. (P.C.).**—Capital £500. Chemists, opticians, etc. John Parr, M.P.S., and Allan McAllister, directors. R.O.: 44 Market Street, Westhoughton, Lancs.

**HARWOOD (ESSENCES), LTD. (P.C.).**—Capital £1,000. Manufacturers of and dealers in essences, etc. F. Mercer and Masie M. Birch, directors. R.O.: Cliffords Inn, Fleet Street, London, E.C.4.

**W. HORNETT, LTD. (P.C.).**—Capital £1,000. Manufacturers and processors of oils, fats and chemicals, etc. Frederick W. Hornett, E. E. Hornett, and Sidney Balon, directors. R.O.: 10 Essex Street, London, W.C.2.

**PERRY, WOOD & Co., LTD. (P.C.).**—Capital £100. Manufacturing chemists, druggists, drysalters, etc. Joseph Cook and Alexander Alge, directors. R.O.: Heddon House, 149 Regent Street, London, W.1.

**JOHN VERITY, LTD. (P.C.).**—Capital £500. Manufacturing and pharmaceutical chemists, manufacturers of and dealers in toilet requisites, etc. Solicitors: Stanley Jarrett & Co., 17 Shaftesbury Avenue, London, W.1.

**T. MARSDEN (MARCO CHEMICALS), LTD. (P.C.).**—Capital £1,500. To acquire businesses of a chemical manufacturer carried on by Tom Marsden at Greenbank Street, Preston. Tom and Mrs. Florence E. Marsden, directors.

**G. R. DUTTON, LTD. (P.C.).**—Capital £1,000. Analytical and consulting chemists, manufacturers of and dealers in toilet requisites, etc. George R. and Bertha E. Dutton, directors. R.O.: 13 Sackville Street, London, W.1.

**METAL SALTS, LTD. (P.C.).**—Capital £15,000. Manufacturers and refiners of and dealers in metals, alloys, chemicals, etc. Geoffrey H. Owtram and Duncan R. Paton, directors. R.O.: Victoria Works. Wincham, near Northwich.

**W. A. SHEPHARD, LTD. (P.C.).**—Capital £800. To acquire the business of a pharmaceutical chemist carried on by Emily J. Shephard as W. A. Shephard at 4 Greyhound Road, Fulham. Mrs. Emily J. and Miss Olive K. Shephard, directors.

**ASCOTT'S PHARMACIES (1933), LTD.**—Trading profit for year to September 30, 1941, amounted to £5,137, against £5,468 in

the previous year. After charging depreciation, war damage contributions, debenture interest, etc., net profit amounts to £648 (against £1,153).

**INTERNATIONAL SPONGE IMPORTERS, LTD.**—Trading profit for the year 1941 amounted to £19,027, against £15,895 in the previous year. After allowing for directors' fees, depreciation and war damage, £14,751 remains; £2,000 has been placed to taxation reserve. £14,551 is carried forward, against £18,050 brought in.

**TO BE STRUCK OFF THE REGISTER OF COMPANIES.**—The "London Gazette," March 31, gives notice that Camberwell Chemical Co., Ltd.; Electro Medical Treatment, Ltd.; and Stephens Pharmacy, Ltd., are among companies to be struck off the Register of Companies at the expiration of three months, unless cause is shown to the contrary.

**PARTICULARS OF CLAIMS SOUGHT.**—Notice is given in "The London Gazette," March 20, that all persons having claims against the estate of the late David Anderson, M.P.S., 21 Broadway Parade, Crouch End, Hornsey, Middlesex, are required to send particulars in writing to the Trustee Department of Barclays Bank, Ltd., 54 Lombard Street, London, or to Mr. W. Eric Lark, 34 The Broadway, Crouch End, London, N.8, on or before May 23. A paragraph in "The London Gazette," March 31, gives notice that all persons having claims against the estate of the late Albert Edward Lawson, Benbow, Hulham Road, Exmouth, retired pharmacist, are required to send particulars in writing to the Trustee Department, Barclays Bank, Ltd., 17-18 High Street, Exeter, or to Messrs. Crosse & Crosse, 4 Bedford Circus, Exeter, on or before June 1.

**Voluntary Windings-up.**—At a meeting on March 19, it was resolved that Plastics Developments Sales, Ltd., should be voluntarily wound-up; Mr. C. N. Newton, Eccleston Works, St. Helens, was appointed liquidator.—At a meeting held in London on March 19, it was resolved that Sedatives, Ltd., should be voluntarily wound-up; Mr. G. A. Warley, 22 Chancery Lane, London, W.C.2, was appointed liquidator.—A meeting on March 4 resolved that Pomanders, Ltd., should be voluntarily wound up. Mr. S. E. Foster, 29 Bank Street, Ashford, Kent, was appointed liquidator.



# TOPICAL REFLECTIONS

## Future Policy

Recent discussions at Manchester and Birkenhead, though nominally on different subjects (pp. 409, 410), cover much the same ground. When referring a week ago to the British Medical Association plan for a general medical service, the thought crossed my mind that the report of the Pharmaceutical Society's Committee of Inquiry, though comparable with the B.M.A. report in thoroughness, falls short of it in one respect. The Association's Committee emphasised the belief that its suggested service is drawn up for the benefit of the nation. We may profitably accept the inference that when we attempt collective propaganda on behalf of pharmacy, we too shall be wise to put the emphasis where it will best carry conviction to those to whom our remarks are addressed. Subject to this proviso, I agree with most of what was said at the meetings mentioned. It may be questioned, however, whether Mr. Boardman's suggestion that "pharmacists should use their wholesalers as information and advice bureaux" is practicable. When one thinks of the thousand and one unforeseen problems that arise in retail business, it is surely too much to expect any wholesaler to be able to keep prompt solutions of them "on tap." Most of us prefer to write to the *C. & D.* about them. Nor do I agree with Mr. Haines that "the penalties exacted under the Dangerous Drugs Acts" have "often been a disgrace to the judicial system" in cases of technical offence. Courts of law are to some extent influenced by scales of penalties laid down in the Acts they are administering: these scales show at a glance the view taken by the Legislature on the comparative seriousness of different misdemeanours. The onus of the disgrace referred to must be placed on the Parliament that was so lax as to allow provisions of this type to become part of the Dangerous Drugs Acts.

## Distribution of C.F. Goods

The Council of the Chemists' Friends Association has made a sound decision, combining a short-term and a long-term policy, in the matter of the supply of goods to bazaar stores registered with the Pharmaceutical Society (p. 412). So long as manufacturers of these goods decline to open new accounts, the position will not become appreciably worse. As the C.F. movement expands, reconsideration from

time to time by the Council may be desirable. The sale of proprietary goods in these places has various aspects. Having a few minutes to spare the other day, I walked round the four sides of a display counter in what I suppose to be a typical bazaar premises, where the stock of proprietaries shown ran into three figures. One of the fixtures was being emptied of its contents while a young person dusted each package. The question arises whether in such a case any system exists for ensuring the sale of old packages before new ones are added to fill the fixtures. The answer is probably in the negative; if so, chemists will know how to make good use of the circumstance.

## Pronunciation

Most people who have given thought to pronunciation will agree with the recommendations of a committee of the American Medical Association on the treatment of sulphanilamide and sulphathiazole in speech. Popular usage is frequently inconsistent. If we take, for instance, the four words citric, citrate, salicylic, salicylate, we find few people paying full attention to the values of the vowels in them and to the stresses that should result. Some of our trouble arises from the fact that Latin rules of accent are simple but Greek rules are not. The introductory matter of Walker's Dictionary (fourth edition, 1835), a work to which I occasionally turn for entertainment, includes ten pages devoted to this subject. Many of his remarks have now an added interest by reason of the fact that some pronunciations have shifted during the intervening century: two examples are arsenic, which he marks with the accent on the second syllable and the "e" long, and evil, from which he eliminates the "i." Walker adhered to his principles whenever he could. One of his introductory paragraphs begins: "Hence we may perceive the glaring absurdity which prevails . . . of pronouncing the plural of princess, and even the singular, with the accent on the second syllable . . . : for we might just as well say, duchéss, and duchésses . . ." The antepenultimate accent was his *bête noire*; he disapproved of the customary pronunciation of such words as auditor and plethora, and noted with satisfaction that the learned had "stepped in to rescue" such words as abdomen from "the invasion of the Gothic accent."

**Xrayser**

## PHARMACEUTICAL PRESERVATIVES

AN address on "The Use of Preservatives in Pharmaceutical Preparations" was given to members of the Birmingham Pharmaceutical Association and Branch of the Pharmaceutical Society on March 25 by Mr. H. Berry, B.Sc., Ph.C. (Dean of the College of the Pharmaceutical Society). He dealt with preservatives under four main headings: 1, Chlorophenols and phenyl mercuric acetate; 2, boric acid, borax, etc.; 3, benzoic acid, sulphur dioxide, salicylic acid; and 4, formaldehyde.

The most useful in the chemist's shop, he said, are phenyl mercuric acetate (which at its solubility of 1 in 1000 is very stable and inhibits bacterial growth); chlorinated phenols, chloro-cresol and pentachlor phenol; the methyl propyl and benzyl esters of parahydroxybenzoic acid (the first of which inhibits moulds and the second yeasts); and lactic acid. Methyl and propyl benzoic acid esters are usually employed in the proportion of three of the former to one of the latter. Their effectiveness tends to be reduced by the presence of protein matter, but they are suitable for syrups, eye drops and even intravenous injections. Both compounds appear in the German and Swiss pharmacopœias, and are per-

mitted to be used in foodstuffs in Germany. Lactic acid is especially suitable for preventing oxidation in fixed oils, and antioxidants are often found occurring in these oils.

To meet shortages due to the war, Mr. Berry suggested the use of liquid extracts or concentrated tinctures in place of alcohol, and a tragacanth suspension of saccharin with spirit of chloroform as a substitute for syrup, since British beet sugar does not make good syrup and the proportion of sugar required in syrup to enable it to keep for any length of time is 66 per cent. Methyl cellulose was recommended as a substitute for tragacanth, and sorbitol was suggested as an alternative to glycerin.

MESSRS. G. KNOWLES, W. MARTIN, and the chairman (MR. H. WALSH) raised points in the subsequent discussion, and MR. WILSON asked what was a suitable preservative for blood for use in transfusions. To this the speaker replied that he saw no reason why phenyl mercuric acetate should not be used at a strength of 1 in 2000, if medical approval were first obtained. A vote of thanks, proposed by MR. E. R. WITHELL, was seconded by MR. E. W. MANN.

## WOMEN PHARMACISTS' ASSOCIATION

THE annual meeting of the National Association of Women Pharmacists was held on April 9, the president (Miss E. Hodgkinson) in the chair. Miss Hodgkinson described how the Association's work and influence in pharmacy had increased, and how even greater progress could be made. She then moved reception of the annual report; the motion was seconded by Miss Islip. It was unanimously agreed that the Loan Fund should be re-named the Alice Freke Loan Fund, in order to perpetuate the memory of Mrs. Freke in connexion with it. Miss Harvey, in seconding the adoption of the report, said that the satisfactory condition of the Association reflected credit on the work of the officers, who had taken up the challenge which she had put forward at the last annual meeting.

### Report on Employment

The employment secretary (Miss Islip) reported that 1941 had been the busiest year on record; in addition to inquiries from employers for pharmacists, informa-

tion had been sought on many other matters. Salaries had improved, and there were good openings in retail pharmacy for those keen on this work; she also stressed the importance of taking an active part in the work of the Pharmaceutical Society's branches. The shortage of locums during the summer months was acute, and was likely to be worse this year; she hoped that shops and hospitals served by several pharmacists would manage without a locum and so leave the available locums to relieve single-handed pharmacists. Married and retired women who could return to pharmacy during the present emergency should do so. Miss Islip regretted the decrease in the number of inquiries for apprenticeship, and hoped that every encouragement would be given to suitable girls to take up pharmacy as a career so that there will be sufficient young qualified women to take part in the reconstruction in pharmacy after the war.

The treasurer (Miss Sachs) said that although general expenses had been heavier



than in the previous year, there was a satisfactory balance, due to subscriptions from an increased membership. The last item of business was the election of a Loan Fund Trustee to fill the vacancy caused by the resignation of Miss Edmond. Mrs. Irvine, M.B.E., nominated Miss Dennis Hayes. This was seconded by Miss Edmond, supported by Mrs. Skinner, and carried unanimously. After votes of thanks had been passed to the auditors, Loan Fund Trustees, Pharmaceutical Society, and Miss B. Hodgkinson, the president asked Mrs. Irvine, M.B.E. (a member of the Council of the Pharmaceutical Society) to speak on "War-time Pharmacy Problems."

### Problems of Today

Mrs. Irvine dealt with problems arising directly from war conditions. The liability of women for national service affected women closely. Agreement had been made between the Ministry of Labour and National Service and the Central Pharmaceutical War Committee that pharmacists and pharmaceutical students and dispensers would not be asked to transfer to other employment. Similarly the Ministry has issued instructions that women pharmacists and dispensers were not to be called up. Negotiations were proceeding for exemption from the operation of the Control of Engagement Order for women pharmacists and dispensers. Some dilution of women employed in pharmacy was unavoidable, but deliberate dilution must be closely watched, for they knew the danger to the public and to the craft if a large number of half-trained dispensers were allowed to undertake the handling of drugs and compounding of medicines.

**FOODS FOR CHILDREN.**—Under the title "The Feeding of Children from One to Five," the Ministry of Health, in collaboration with the Board of Education and Ministry of Food, has published a memorandum dealing with the nutritional requirements of children of this age group, and the dietary rules and allowances for them. The booklet gives details of the kinds and amounts of food necessary to provide essentials, taking into account present rations and supplies. Directions and recipes are included. An appendix gives information supplied by the Medical Research Council's Accessory Food Factors Committee on preserving vitamins and salts during preparation of green vegetables for the table.

## TRADE MARKS

The figures in parentheses refer to the classes in which marks are grouped and details are given in *The Chemist and Druggist Diary*, 1942, p. 273.

(From "*The Trade Marks Journal*,"  
March 25, 1942)

- "RODOL"; for chemicals for purifying water for industrial use, etc. (1). By Rodol, Ltd., 41 Maguire Street, Liverpool, 3. 616,967.
- "DOCYNIDS"; for chemicals used in the treatment of metals (1). By I.C.I. (General Chemicals), Ltd., Wexham Road, Slough, Buckinghamshire. 617,320.
- "FOSMINA"; for pharmaceutical and veterinary substances (5). By Sharp & Dohme, Ltd., 4 Brocket Road, Hoddesdon, Hertfordshire. 615,363.
- "PEPTON"; for pharmaceutical preparations (5). By W. J. Wilson, 79-81 Duke Street, Liverpool, 1. 617,024.
- "SOSTYN"; for substances for use in medicine and pharmacy; infants' and invalids' foods; medicated beverages and preparations for same; dietetic pharmaceutical foods and preparations of vitamins for dietetic use in food (5). By Horlicks, Ltd., 9 King's Bench Walk, London, E.C.4. 615,996 (Associated).
- "STIBATIN"; for medicines for human use containing preparations of antimony (5). By Glaxo Laboratories, Ltd., Greenford Road, Greenford, Middlesex. B617,150.
- "BRYTEX"; for fluorescent screens for use in radiography (9). By Ilford, Ltd., 23 Roden Street, Ilford, Essex. 617,608.
- "ELECTROX"; for meat extracts (29). By Macpherson, Train & Co., Ltd., Adelaide House, London Bridge, E.C.4. 617,232 (Associated).
- "NIDO"; for fresh, sterilised, dried, powdered, preserved or condensed milk (29). By Nestlé's Milk Products, Ltd., 6 and 8 Eastcheap, London, E.C.3. 617,551.
- "BRAND'S ESSENCE OF CHICKEN" on oblong label incorporating directions, etc., and facsimile signature "Brand and Compy." for essence of chicken (29). By Brand & Co., Ltd., 72-84 South Lambeth Road, London, S.W.8. 617,707 (Associated).

### APPLICATION AMENDMENTS

According to "The Trade Marks Journal," March 25, 1942, specification No. 616,318, by J. R. Geigy Société Anonyme has been altered so as to read: "Pharmaceutical, veterinary and sanitary substances, disinfectants and antiseptics, but not including vitamin concentrates for use in medicine and pharmacy and goods of the same description."

According to "The Trade Marks Journal," March 25, 1942, specification No. 617,211, by William Smith, has been altered so as to read: "Perfumery, cosmetics, hair lotions and dentifrices, but not including soap."

## N.P.U. SECRETARY AT WEMBLEY

MEETING at Wembley on March 26 under the auspices of the National Pharmaceutical Union was attended by over one hundred pharmacists from the N.W. London area. Mr. S. W. Bearman presided, and the speaker was Mr. G. A. Mallinson secretary, N.P.U.).

### "Selling" the Chemists' Friends Scheme

Mr. Mallinson pointed out how great had been the value of the Chemists' Friends movement to chemists in retail business during the six years of its existence. There were still, however, certain people who were doing their best to sabotage the movement. The movement was now so large that it was a separate body, not controlled by the N.P.U. except in its retail representatives who were members of the C.F. Council. It was felt by some of the manufacturers supporting the movement that the conditions for retailers should be tightened up. Mr. Mallinson was astonished that there was still need to persuade chemists to support a movement that meant reservation of the better-class medicaments to pharmacists. It was curious that he was now apparently "selling" the C.F. scheme to pharmacists who had themselves first suggested it to him. The agreement pharmacists were being asked to sign would enable the N.P.U. to ask the C.F. Council to tighten the scheme, enabling C.F. goods to be withheld from chemists who consistently and deliberately displayed non-C.F. proprietaries. Mr. Mallinson described the recent circular letter sent out by the Proprietary Association as a challenge to the pharmacist's claim of being the proper channel for the sale of medicines. Chemists must never relinquish that claim; it was unfortunate that the time for reconsidering the agreements with C.F. manufacturers came now, but their present agreements terminated at the end of the year.

### Discussion

MR. PARKER, a non-pharmacist managing director of a group of fifty chemists' shops, paid tribute to the excellent help his company had always received from the N.P.U., but could not agree with it over the C.F. scheme, which he maintained was doomed to early failure. Loss of bonuses was too serious for an organisation of the size of his own, with a turnover of £200,000 a year, especially as his company frequently elected premises with large windows. He

made more money from two or three well-advertised proprietary lines than from C.F. goods.

MR. GOLDEN suggested that people who did not support C.F. should not receive C.F. goods, and that C.F. supporters should actively refrain from selling non-C.F. goods.

Replying, MR. MALLINSON emphasised that the Union had no intention of badgering pharmacists with more restrictions. They only wanted to get at the man who deliberately flouted the scheme. Supporters of the C.F. movement could not be encouraged to refuse to sell non-C.F. lines as this would probably raise the legal condition of conspiracy, but they could act as free agents and refuse to display non-C.F. lines. Answering MR. CAMERON, who appealed to him to deal with the man who was full of enthusiasm at a meeting and then went away and did nothing, he said the agreement was the very thing to keep such men in line.

MR. GOLD asked what was the position of the non-proprietor pharmacist.—Such men could do a great deal to make the scheme a success, as in many cases they were the very men who put the scheme into operation over the counter.

MR. MILES pointed out that the increased sales of many lines hitherto stocked by trades other than chemists amply repaid by their increased turnover for the loss of window display bonuses.

MESSRS. ROBINSON and Cross also took part in the discussion.

A vote of thanks was proposed by MR. W. E. JAMES and seconded by MR. NEVILLE BOOTH.

**Eighty-seven Thousand Parcels.**—Every week the Red Cross sends 87,000 parcels to prisoners of war. Each parcel is packed in a cardboard box weighing 14½ ounces, made from 18 ounces of waste paper. Approximately 5,000,000 lb. of waste paper is consumed each year for this purpose. Your weekly collection will help to make good this supply of cardboard sent to enemy countries.

**CLOSED ON SATURDAYS.**—Advertisers and subscribers are reminded that owing to war conditions the Head Office of THE CHEMIST AND DRUGGIST, 28 Essex Street, London, W.C.2, is closed on Saturdays until further notice. Urgent instructions relating to advertising and subscriptions should be sent to the C. & D., c/o The Pitman Press, Bath, Somerset.



## CHEMISTS' UNIQUE POSITION

At a meeting of the Tees-side Branch of the Pharmaceutical Society held in Middlesbrough recently, Mr. W. R. Brackenbury presiding, the speaker was Mr. H. N. Linstead (secretary, Pharmaceutical Society), who dealt with the present and post-war states of pharmacy, and the manpower and call-up situation.

### Pharmacy's Position

He regarded the problem as economic and the solution as depending on the parliamentary outlook after the war. Mr. Linstead said that in comparison to other retailers pharmacists were in a unique position in that they rendered an essential service. He was of opinion that the Guilds system, in a modern form, could protect the interests of smaller retailers. In the two reports of the pharmaceutical organisation committee lay, in his opinion, the raw material upon which pharmacy could build up a post-war policy. The economic problems which faced pharmacy could not alone be solved by the Society or the National Pharmaceutical Union. These organisations could only be utilised as spear-heads; the real crusade and energy had to come from the individual members. Municipal and co-operative trading were likely to extend whether pharmacists liked it or not. The independent trader must build up an organisation on a large scale, to compete with the big man. He must link up with good wholesale distributing and manufacturing houses. The Chemists' Friends scheme was leading the way.

### Man Power

Mr. Linstead explained the procedure adopted by the district and Central War Committees, and said that, because of the essential service pharmacy rendered, the Ministry of Labour had treated it generously in the call-up. Woman pharmacists, he said, would not be called for interview by the Ministry of Labour. Where a pharmacist secured deferment it was on account of his present work, and if he changed his occupation his deferment automatically fell through until his case had again been reviewed by the Central Committee.

### Questions

MR. MOFFITT asked if Mr. Linstead thought pharmacists would willingly revert to pre-war long opening hours.—MR. LINSTAED replied that he visualised greater

co-operation between retailers, and in consequence a fuller service, but not a longer one for any individual.

MR. GILLESPIE asked on whose authority the voting in the Council chamber was regarded as secret.—Such procedure was not unusual; any councillor could have his dissent recorded.

MR. THEWLIS said that members were given little or no information as to the activities of individual councillors, and suggested that territorial representation would remedy this.—Territorial representation had some disadvantages. These the speaker instanced.

MR. R. MACDONALD MURRAY said that in his opinion proportional representation was desirable. The setting up of the Drug Trade Council, as visualised by Mr. Hill in his presidential address in 1918, admitted the weakness of the Society in not having the machinery and knowledge to impress pharmacy's views on the Government. He trusted that the Pharmaceutical Council would insist on being the unifying and controlling body in pharmacy.

MR. THEWLIS said many members could not afford the time and money to give service on the Council; would members not get better representation if Council members were paid?—Branches could subsidise members of council by paying locum charges for a representative.

MR. RICHARDSON asked the position of a pharmacist who did not seek deferment but whose employer secured his deferment on the ground of essential work.—Quite a number of instances had occurred in which men were deferred against their will. The pharmacist in this category was told by the War Committee that he was doing his best national service where he was.

MR. STAINSBY said chemists in Darlington viewed with concern the fact that essential commodities were to be found in shops other than pharmacies.—In addition to what the Drug Trade Council was doing, members could themselves deal with this problem; he suggested that Mr. Stainsby should write a letter to the Ministry of Supply instancing his difficulty.

MR. BRAY said the Society should not accept the statement that sergeant-dispensers in the Royal Army Medical Corps had the same facilities as others for obtaining promotion. He also asked the secretary if the Society was endeavouring to secure commissions for pharmacists in the Forces.—

the army had absorbed all the pharmacists could into the R.A.M.C. The question of obtaining commissions for pharmacists had not been lost sight of.

MR. R. MACDONALD MURRAY said that a republication of the Glyn Jones report on the inefficiency that manifested itself in the so-called pharmaceutical service during the last war, and the subsequent War Office report, would focus attention on this matter. In view of the recent Beveridge report, the glaring cases of inefficient dispensing, especially in the Royal Air Force, as instanced in the Press, should be publicly exposed.

MR. MURRAY said the Tees-side Branch some years ago pressed for the appointment

of a Public Relations Officer for pharmacy. Pharmacy needed the right kind of publicity as never before.—The matter was engaging the attention of the Council, and it was hoped to make a suitable appointment.

### Advice on Local Problems

After the meeting Mr. Linstead interviewed various groups of pharmacists, and the hospital pharmacists conveyed to Mr. Linstead their appreciation of the publicity given to the aspirations of the Guild of Public Pharmacists. Mr. Linstead also advised them on pressing local problems.

MR. STAINSBY proposed and MR. SALMON seconded a vote of thanks to Mr. Linstead.

## NEW ZEALAND BOTANICALS

A GOOD deal of information has been published from time to time on the possibility of replacing certain crude drugs formerly imported from Continental sources by intensive cultivation of the plants concerned, both in this country and in the Empire. It is interesting, therefore, to read in the "Bulletin of the Imperial Institute" (XXXIX, 4, p. 361) an account from the Department of Scientific and Industrial Research, New Zealand, of the progress made in the production of botanicals in that Dominion. For some time before the outbreak of war between Germany and Great Britain, the article states, research into the possibilities of the production of certain crude drugs in New Zealand was being considered. A definite programme was formulated and experimental work commenced with the war.

An experimental area of four acres was chosen near Wellington, the soil being mainly a silty loam of alluvial origin. Small plots were planted in the late spring of 1940, and tests made of the materials obtained therefrom gave on analysis the results shown in the accompanying table.

All the species, it is stated, showed good growth in the preliminary trials and produced viable seed. The article adds that commercial production of dried leaf from *Digitalis purpurea* was being undertaken and a trial shipment had already been made of leaf from wild plants, to be followed by a further shipment from cultivated plants during this year. Trial shipments of the dried leaf of *Atropa belladonna*, *Hyoscyamus niger* and *Datura stramonium* would also be made to Great Britain during the early part of this year.

<i>Atropa belladonna</i>	.. Flowering shoots (English seed)	0.88 per cent. total alkaloids
	Stem leaves at flowering (English seed)	0.38 per cent. total alkaloids
<i>Digitalis purpurea</i>	.. Leaves from flowering local plants	14 units per gram
	Leaves from rosette plants (seed from Paris)	18 units per gram
<i>Datura stramonium</i>	.. Leaves from flowering plants (local and imported)	0.34 per cent. total alkaloids
<i>Hyoscyamus niger</i>	.. Leaves from annual plants in flower (Paris seed)	0.05 per cent. total alkaloids
	Leaves from biennial plants in first year (Astrin Bros., England)	0.13 per cent. total alkaloids.
<i>Ricinus communis</i>	.. Beans from plants grown at Auckland (seed from Australia)	56 per cent. oil
	Beans from plants grown at Wellington (seed from U.S.A.)	45 per cent. oil
<i>Mentha piperita</i> , var. <i>citrata</i>	.. Leaves from non-flowering plants (plants from Australia)	0.32 per cent. oil (not quite up to required standards of purity)
<i>Chenopodium ambrosioides</i>	.. Flowering and seeding tops (seed from Northern N.Z.)	0.1 per cent. oil



## TRADE NOTES

**Jenners Malted Food.**—Splendor, Ltd., 7 Lower Belgrave Street, London, S.W.1, state they have taken over the sole distribution of this product.

**Supplies to be Apportioned.**—Evan Williams Sales Department, 33 High Street, Acton, London, W.3, have elaborated a system of distribution that ensures that every customer, large or small, wholesale or retail, receives his fair share of available supplies. Chemists are asked to be equally discriminating in distributing to customers.

**Now Distributed Through Chemists.**—Plesox stomach treatment, manufactured by Granto Laboratories, Ltd., 108 Mortlake Road, Kew, Surrey, and distributed by Dorset & Barry, Ltd., 216 Morden Road, Morden, Surrey, is to be available in future through chemists.

**Limitation Decision Reversed.**—It was announced in a recent issue of the *C. & D.* (March 14, p. 307) that Unguentum Emolliens Vinolia was outside the quota restrictions of the Limitation of Supplies Order. Vinolia Co., Ltd., Bebington, Cheshire, announce that this decision was reversed as from March 30, since when it has been subject to the restrictions imposed by the Order.

**Vaseline Petroleum Jelly Supplies.**—Chesebrough Manufacturing Co., Ltd., regret they cannot accept any orders from retailers until July, due to conditions beyond their control. While asking for the indulgence of the retail trade, they would direct them to their usual wholesaler for only limited supplies. All orders on hand will be dealt with in rotation. Their full announcement will appear in *C. & D.* April 25.

**New Sulphanilamide Compound.**—The Watford Chemical Co., Ltd., 50 South Audley Street, London, W.1, announce elsewhere in this issue the introduction of sulphaguanidine (sulphanilyl guanidine), for use in the treatment of acute bacillary dysentery and as a pre-operative and post-operative measure in colonic surgery. It is claimed that this is the first time this product has been made in this country on a commercial scale.

**Rotational Sales Advised.**—E. C. De Witt & Co., Ltd., Croydon, Surrey, state that all De Witt's lines now comply fully with the requirements of the Pharmacy and Medicines Act, 1941, effective July 1,

except such supplies of De Witt's antacid powder as were released before March 1. Stock issued after that date carries a blue formula disc on the lid. Any remaining packages of the pre-March pack, as well as samples of De Witt's lines which do not comply with the Act, should be disposed of forthwith or returned to the makers.

### Business Changes

**CHEMIA PRODUCTS, LTD.,** have removed to 27-28 Finsbury Square, London, E.C. Telephone: Kelvin 5097.

**CENTRAL PHARMACEUTICAL WAR COMMITTEE.**—The telephone number of the Committee at 17 Bloomsbury Square, London, W.C.1, is now Chancery 5064.

**THE CLYDEBANK CO-OPERATIVE SOCIETY LTD.,** 11 Hume Street, Clydebank, Glasgow, has applied to the West of Scotland Price Control Committee for authority to open as toilet goods dealers, chemists, and druggists, at 379 Kilbowie Road, Clydebank, and 34 Dumbarton Road, Dalmuir. It is understood that permission will be granted, provided no opposition is forthcoming after opportunity has been given for objections to be lodged.

### Proprietary Articles Trade Association

**Additions to Protected List.**—*Volta Ltd.* Voltas domestic washing-fluid, 8½ 6s. 6d. doz.; 1s. 3d., 11s. 3d. doz.; 3s. 9 33s. doz.; 5s. 9d., 51s. doz., less 2½ p cent. for cash in ten days.

**Alterations.**—*Evans Sons Lescher & Welford Ltd.* Purgoids, bonus of thirteen to doz. minimum quantities of one doz. withdrawn.

*International Chemical Co., Ltd.* Terms to retailers in England and Wales.—Parc value £2 and under £5, formerly subject to discount of 5 per cent., withdrawn. Terms for £5 and £10 orders unchanged. Bismurated magnesias, Pineate honey cough syrup, Freezeon corn-remover and Lir stone Phosphate, now standardised in packed parcels, details of which may be obtained on application.

*Yeast-Vite Proprietaries (distributed by Irving's Yeast-Vite, Ltd.).* Tax-inclusive sizes of the following products discontinued for duration of war: Cicfa tablets, 7d. size; Iron Jelloids, No. 1, all sizes; Nos. 2 & 2a, 3s. 3d. size; Yeast-Vite tablets, 7d. & 5s. 4d. sizes.

*Litto Laboratories (L. T. Flittner).* Bonus of thirteen to doz. on one doz. withdrawn.

## PERSONALITIES

**STAFF-SERGEANT A. W. STARK, R.A.M.C., M.P.S.,** 5 Poulton Old Road, Blackpool, who was previously reported missing (see *C. & D.*, April 11, p. 415), is now understood to be safe.

**FLIGHT-SERGEANT GEORGE DOUGLAS GAMBLE, M.P.S.,** formerly of the Pharmacy Department, Nuneaton Co-operative Society, Ltd., has been awarded the British Empire Medal. While flying over Northern Ireland, he was forced to attempt a landing in the face of a heavy snowstorm. On impact, he managed to scramble out on to the starboard wing, which was on fire. After rolling himself in the snow to extinguish the flames from his clothing, he pulled the second pilot clear, re-entered the burning plane to attempt a further rescue, but was driven back by the flames.

## BIRTHS

**HERD.**—At 9 Grosvenor Street, Edinburgh, on March 29, Margaret, the wife of Mr. W. E. Herd, M.P.S., St. Ronans, Lothian Street, Bonnyrigg, of a son.

## MARRIAGES

**LOTHIAN—LONEY.**—At Ealing, London, W.5, on April 2, John Lothian, M.P.S., 35 Gordon Road, London, W.5, to Joan Loney.

**MACPHERSON—RECORDON.**—At St. Filan's Church, Newport, recently, David A. W. Macpherson, Ph.C., A.I.C., 6 Greenhead Lane, Dalton, Huddersfield, formerly of Wormit, Fife, to Enid Matrine Recordon.

**WEBSTER—HOCKEN.**—At St. Peter's Church, South Croydon, on April 4, Lieutenant Frank Keith Webster, to Orena Francis, only daughter of Mr. H. Hocken, M.P.S., 9 Manor Way, South Croydon, and Redhill.

## DEATHS

**BIBBINGS.**—At Woodleigh, Forde Park, Newton Abbot, recently, Mr. John Henry Bibbings, Ph.C., aged eighty-nine.

**GEALY.**—Recently, Mr. Joshua Gealy, M.P.S., 4 Ossulton Parade, East End Road, Finchley, London, N.2. Mr. Gealy passed the Qualifying examination in 1933.

**TAVENDALE.**—Recently, Mr. Peter Tavendale, M.P.S., Market Square, Witney.

Mr. Tavendale passed the Minor examination in 1899.

**WILSON.**—At Roseneath, New Road, Formby, on April 6, Mr. Richard Henry Wilson, M.P.S. Mr. Wilson qualified in 1890 and later commenced business on his own account in Formby. In 1917 he was forced to retire through illness, but a few years later he acquired a business in Southport which he carried on for three years.

## RECENT WILLS

**MR. THOMAS HENRY BUSWELL, M.P.S.,** High Street, Lutterworth, Leics, who died on January 7, left £4,981, with net personality £4,128.

**MR. EDWARD ARTHUR ANDREWS, Ph.C.,** 85 Harrowdene Road, Wembley, consulting pharmacist to St. Mary's Hospital, who died on January 28, left £1,885, with net personality £1,580.

**MR. ARTHUR ALBERT ABBOTT, 37 Bradford Road, Shipley, Yorks,** managing director of the Albion Drug Stores, Ltd., Shipley, who died on October 20, 1941, left £5,252, with net personality £2,371.

**MR. FREDERICK GEORGE TILDESLEY, 13 Ashgrove, Peasedown St. John, Somerset,** formerly of Glyngarth, Anglesey, retired chemist, who died on November 10, 1941, left £794, with net personality £541.

**MR. HUBERT FULTON TAFFS, 35 Carson Road, West Dulwich, London, S.E.,** chemists' sundriesman, for many years secretary of J. C. Gambles & Co., Ltd., who died on January 23, left £2,810, with net personality £2,717.

**MR. GILBERT FRANCIS MARGERISON, 4 Albany Road, Ansdell, Lytham St. Annes,** managing director of J. Margerison & Co., Ltd., soap manufacturers, who died on February 3, left £5,752, with net personality £5,413.

**MR. JAMES MORTIMER BUSH, 28 Ash Grove, Hackney, London, E.,** chairman of W. J. Bush & Co., Ltd., one of the founders of the British Essence Manufacturers' Association, who died on November 20, 1941, left £237,593, with net personality £211,834.

**MR. ERNEST EDMONDS, F.C.A., East Cosham House, Cosham, Hants,** chairman of Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, who died on November 23, 1941, left estate "so far as can be ascertained" of the gross value of £35,162, with net personality £9,272.





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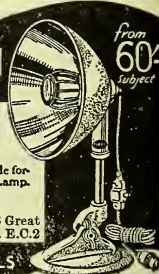
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# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

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Circulates throughout the Pharmaceutical, Chemical, Drug, Essential Oil, Perfumery, Cosmetic, Toilet Preparation and allied Trades and Industries in Great Britain, Eire, the British Empire, and foreign countries.

*Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire*

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*The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.*

## Further Research Developments

THE announcement of the registration of Imperial Chemicals (Pharmaceuticals), Ltd., under the direction of the parent company, Imperial Chemical Industries, Ltd. (C. & D., April 11, p. 405), has created considerable interest in the trade. This important development, however, caused little surprise amongst those who are closely in touch with such matters. Ever since its formation, the manufacturing and trading activities of I.C.I. in chemical products had been confined to industrial chemicals, acids, fertilisers, dyes, etc. The company had, it seemed, deliberately refrained from entering the field of pharmaceutical and fine chemicals. For some time past, however, it has been known in trade circles that, in addition to the products made for the Government, I.C.I. have been manufacturing other substances of the fine chemical group, and these have been distributed through ordinary trade channels. In connexion with the "Pharmaceuticals" subsidiary, I.C.I. have issued the following statement:

"Imperial Chemicals (Pharmaceuticals) Ltd., is a private limited company with a

capital of £500,000 in £1 shares. It is a subsidiary of Imperial Chemical Industries, Ltd., and is the logical outcome of the work carried out by the parent company in the field of organic chemistry. The research work of I.C.I. (Dyestuffs), Ltd., in the higher organic chemical field has for some years naturally included the closely related branch of chemical therapeutics and several important products are already on the market. These research facilities have enabled the company to develop many additional products previously only obtainable from foreign sources. Since the outbreak of war the output has been almost exclusively required by Government departments for use in the armed forces of the Empire and our Allies. Further developments of an important nature have now made it desirable to form this subsidiary company. This extended field of research has, of course, in accordance with I.C.I.'s practice been carried out in close collaboration with a number of eminent academic workers in organic chemicals and therapeutics."

## Substantial Achievements

With this further extension in organised research, it might be asked if there is not a danger of overlapping in the form of duplicated and unco-ordinated effort and, eventually, harmful competition. Those firms who composed the pre-war British fine chemical industry have during the past twenty years made great strides individually and there is good evidence of substantial achievements as the results of their efforts. There is little doubt that their post-war programmes will be equally as progressive. Last November, five of the leading fine chemical manufacturers, while retaining their freedom of action and their separate identities, co-operated to the extent of setting up one research organisation under the title of "The Therapeutics Research Corporation of Great Britain, Ltd." (C. & D., November 29, 1941, p. 276). The many advantages of this scheme of combined effort in the investigation of selected research problems are obvious. Now we have the contribution of I.C.I. No one will underestimate the power and possibilities



of this undertaking. With the nucleus of its fine chemical organisation already in being and functioning effectively, and with its great resources, both financial and scientific, the scope of its ultimate development is almost unlimited.

In almost any other industry it might well be said that saturation point had been reached, if not passed. Yet the field of research in the fine chemical industry, particularly in regard to its moving apace with the advancing knowledge concerning the varied aspects of disease, is so wide and varied and constantly opening up new avenues of investigation as to be inexhaustible. Apart from therapeutics there is the vast field of research in technical chemicals which calls for similar bold treatment. Every industry in the country relies on the chemist and the scientist to provide new and improved raw materials. To our way of thinking, there cannot be too much research with the industry and the scientist working closely together. We say this provided (and this is the crux of the whole subject) there is co-operation in research between all concerned. There is certainly no reason to fear that the research programmes of the various interests mentioned above have been mapped out without consideration nor that the need for co-operation has not realised and given effect to by mutual desire and understanding. The ideal scheme would, of course, be the formation of a British Chemical Research Pool, supported by, and at the service of, all British firms in the industry. The post-war era will provide the opportunity to the British fine chemical industry to expand and consolidate its position, not only in scientific achievement in the form of new and improved methods and means of combating disease, but in reaping the reward of its enterprise in the markets of the world.

### Council Election Controversy

FOLLOWING the announcement of the postponement of the Council election of the Pharmaceutical Society of Great Britain (*C. & D.*, March 28, p. 350), we have received from three prospective candidates a letter (see p. 452) which seems to indicate distorted perspective. Our correspondents

not only declare they have been denied the opportunity of putting their views before the electorate, but state that unity in pharmacy cannot be established while "employees are deprived of their rightful share in the administration of the profession." They contend that any war-time difficulties could and should be overcome, that the cost of holding an election is small compared with the Society's annual expenditure, and that the ballot sheet should be printed in the official organ.

We thought the matter of Council elections had been fully thrashed out a year ago, but apparently it was not so, and some members of the Society—a minority, we believe—have evidently been nursing a grievance during the past twelve months. The chief test is surely whether the holding of an election is or is not assisting the war effort. In our view there can only be one answer and that "is in the negative." In fact we think that if for any reason one or more seats on the Council should become vacant during the war the position should be filled by co-option rather than election. Though employees comprise at least 50 per cent. of the membership of the Society, it is questionable whether any organisation can claim to be representative of more than a minority of employed pharmacists. The prospective councillors have not, so far as we are aware, a grievance against the actions of any particular councillor who was due for election this year, and while we are all in favour of the younger men in pharmacy taking office and accepting responsibilities it is difficult to see how pharmacy would benefit at this juncture by replacing even three experienced Councillors with three untried men.

As to the difficulties of holding the elections, the cost may be comparatively small, but even small expenses may be unjustified in times of financial strain, and the treasurer of the Pharmaceutical Society would not welcome the additional burden at the present time. To suggest printing the ballot form in the official organ ignores the acute paper shortage. At the 1939 Council election *THE CHEMIST AND DRUGGIST* devoted eighty-one inches to twelve Council candidates (one did not reply to our invitation) and their views

(apart from comment and correspondence). No pharmaceutical periodical could allot space to anything like this extent today. How then would the electorate judge the suitability or otherwise of the prospective councillors?

There are some 4-5,000 pharmacists now in the Forces, and the majority, owing to circumstances, must be regarded as non-voters. At the last Council election the number of effective votes was 6,853. Thus between those who would be unable to record their votes and those too apathetic to do so an election now would be farcical. Further, it must not be overlooked that it is the policy of the Government that general elections of members of Parliament and councillors of local authorities, chartered and statutory bodies should not be held during the war, and to act to the contrary to this ruling would be a great mistake for pharmacy as a whole.

### Coupon Accounts

THE scheme for handling coupons issued under the Consumer Rationing Order through the banks is to be open to all traders. They will be required to pay into the banks coupons in official coupon envelopes which will be issued in standard sizes of 100, 500 and 1,000 coupons. Actually these envelopes will be required to contain only 98, 490 or 490 coupons, as there will be an allowance of 2 per cent. to compensate retailers for loss through pilfering and other causes. Retailers who deal in very small quantities of rationed goods may pass on coupons in quantities of less than fifty direct to suppliers, thereby dispensing with the banking arrangements, but if they do so they will not participate in the 2 per cent. discount; nor will they be able to receive transfer-vouchers or place coupons on deposit with their suppliers. But if they choose to open a banking account they will not be able to pay in less than 98 (i.e., one 100-coupon envelope) at a time. In addition to manufacturers, merchants, wholesalers and retailers of rationed goods, businesses, undertakings and institutions that receive periodical allotments of coupons or vouchers from the Board of Trade for the purchase of rationed goods will be entitled to join in the scheme. In general it will be illegal for a trader to pass on coupons direct to another trader (except in quantities of less than fifty). Where the purchaser is buying uniform or protective clothing for his business employees, and renders with the coupons a signed statement

that they were collected for this purpose, he may also pass on the coupons direct. Traders are warned that they should not approach their banks on this matter until the date of the coming into operation of the scheme is announced.

### War Distress Fund Loans

A CASE has been brought to the notice of the War Damage Commission in which a claimant whose house had been totally destroyed by enemy action was given a loan of £100 from one of the war distress funds on his written undertaking to repay the sum when he receives from the Commission the value payment which would be due to him at some future date—probably at the end of the war. Although such a condition attached to a loan, not being in law an assignment, does not require the approval of the Commission, the Commission considers it right to draw the attention of the organisers of distress funds, and others, to the provisions of Section 7 (3) (a) of the War Damage Act, which empowers the Commission to attach to a value payment conditions the observance of which might in practice prevent the claimant from carrying out his undertaking. This difficulty does not arise where a loan, to finance repairs to a partially damaged property, is made to a person to whom the cost of such repairs is repayable by the Commission after their completion.

### COMING EVENTS

#### Saturday, April 18

LIVERPOOL BRANCH, CATHOLIC PHARMACEUTICAL GUILD, 49 Bedford Street, Liverpool, at 3 p.m. Election of officers and council. Mr. D. Pladin on "Action of Sulphonamides on Bacteria." Tea.

#### Wednesday, April 22

WOLVERHAMPTON BRANCH OF THE NATIONAL PHARMACEUTICAL UNION, Oak Lounge, Victoria Hotel, Wolverhampton, at 7.30 p.m. Mr. G. A. Mallinson on "C.F. Matters and War-time Pharmaceutical Problems."

#### Thursday, April 23

WEST HAM AND EASTERN DISTRICT ASSOCIATION OF PHARMACISTS and Branch, Stratford House, 43 West Ham Lane, London, E.15, at 3 p.m. Dr. G. R. Boyes on "Health, Hormones, and Hæmatology."



## LEASE-LEND DRUGS

THE Ministry of Supply announces that a limited quantity of crude botanical drugs imported from the United States under the Lease-Lend arrangement will shortly be available for distribution. The drugs and the prices at which they will be sold are:—

CASCARA SAGRADA, 150s. per cwt., ex store.

EXT. HAMAMELIDIS, 10s. 6d. per gallon, ex store.

HYDRASTIS, 22s. 6d. per lb. (extra for repacking).

LEPTANDRA ROOT, 1s. 10d. per lb., ex store.

LOBELIA, 2s. 8d. per lb., ex store.

RESIN OF PODOPHYLLUM, 27s. 6d. per lb., ex store.

SLIPPERY ELM BARK, 1s. 6d. per lb., ex store.

WILD CHERRY BARK, 9d. per lb., ex store (extra for repacking).

The botanical drug importers' section of the London Chamber of Commerce has been appointed as agent for the Ministry for the purpose of distribution. Chemists and others who previously bought any of these drugs for the purpose of their business, and now require supplies, should apply through the usual trade channels and not to the section.

## BUDGET CHANGES

THE following are among the changes in taxation resulting from the Budget proposals presented by the Chancellor of the Exchequer (Sir Kingsley Wood) in the House of Commons on April 14: Purchase tax raised from 33½ per cent. to 66⅔ per cent. on many articles regarded as luxuries, including fabrics; glassware of cut glass; hair-waving and hair-drying machines; electric dry shavers and dry-shaver heads; articles made of leather, hide or skin (except articles for use solely as Service or Civil Defence equipment); photographic cameras and enlargers; projectors for sub-standard film or slides; lenses and other parts of, or accessories to, photographic cameras, enlargers or projectors; unexposed sensitised photographic paper, cloth, plates and film, except sensitised document base paper, transparent tracing paper and tracing cloth; clocks, watches and accessories; jewellery and imitation jewellery; articles made wholly or partly of ivory, amber, jet, coral, mother of pearl, natural shells or tortoiseshell, jade, onyx, lapis lazuli or other precious stones; fancy or

ornamental articles of a kind suitable for personal or domestic use; toilet requisites of all kinds (except the following, not being articles supplied as part of a toilet set: brushes, combs, scissors, razors and razor blades, sponges, face cloths and towels, and toilet paper); perfumery; toilet preparations (whether medicated or not), including cosmetics but excluding soap (including soap shampoos), dentifrices, eye lotions, mouth washes and antiseptics, calamine lotion and similar alleviating toilet preparations, unperfumed.

Customs and Excise duties on spirits raised from £5 os. 4d. per gall. (full rate) to £7 os. 4d. per gall.; on wine not exceeding 25 degrees of proof spirit, from 8s. to 14s. per gall.; on tobacco, manufactured, and snuff 10s. per lb. increase on all grades.

Entertainments tax about doubled.

Salaried workers to be allowed a travelling allowance of up to £10 a year limited to increased expenses incurred through a change of residence or place of work due to the war.

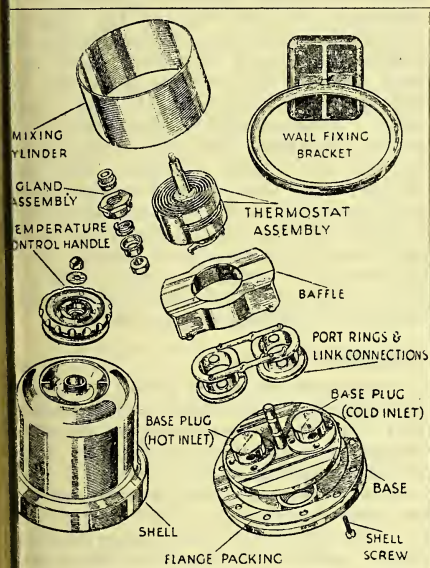
The minimum wage, below which income tax is not deducted, raised to £2 weekly for single and £3, £4 and £5 weekly for married men without children, with one child and with two or more children respectively.

### Purchase Tax Changes

The changes in the purchase tax announced by the Chancellor of the Exchequer are explained in detail in a leaflet (Customs and Excise Notice No. 81). The changes take immediate effect, and copies of the notice are being posted at once to all traders registered under purchase tax. Extracts from the leaflet of interest to the drug trade are as follows: The increase rate of purchase tax on the classes of goods listed above applies to all chargeable goods of the classes affected which on or after April 15, are delivered by a registered person under a taxable sale or are applied or appropriated by him to retail trade or other taxable purposes. Stocks of goods which have already been sold and delivered to unregistered buyers, e.g., retailers, prior to that date, and stocks which have previously been taxed or appropriated to retail trade, are not affected by the increased tax. Any increase in price in the case of price-regulated goods would be liable to challenge under the provisions of the Goods and Services (Price Control) Acts, 1939 and 1941. A ruling has been given that shaving soaps and creams will continue to be taxable at 33½ per cent.

# THERMOSTATIC WATER MIXERS

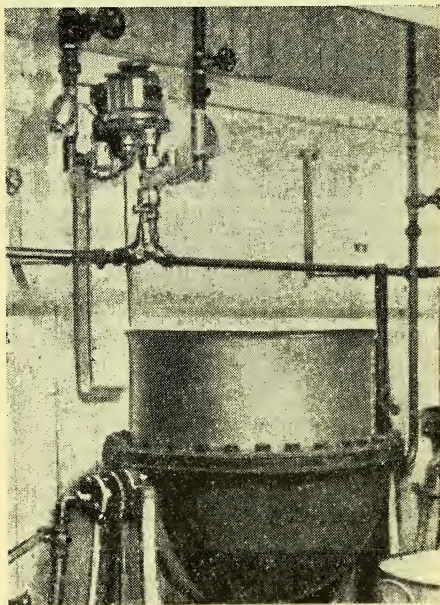
For the operation of steam-jacketed pans in the manufacture of pharmaceutical and food products, of much interest is a thermostatically-controlled steam and cold water mixer. In the accompanying illustrations is shown a mixer suitable for use in pharma-



Constituent parts of the thermostatic mixer for steam and water

utical factories having two 1-in. inlet pipes, one for the steam and one for the water, and a 1½ in. outlet pipe for the heated hot water. A typical installation is one having six taps ¾ in. size for filling steam-jacketed boiling pans. In this particular case the steam pressure has been reduced to about 20 lb. per sq. in., whilst the water pressure is approximately 50 lb. per sq. in. The hot water is supplied at a temperature of 175° F., and the installation includes the mixer fixed on the wall behind the pans, along with inlet stop valves for the steam and cold water and strainers in the pipes, along with horizontal straight-through type of non-return valve. By this means the hot water is always supplied automatically at the correct temperature, constituting a most convenient arrangement. The mixer illustrated consists of a dome-shaped casing and circular base, both of non-metal, with a horizontal knurled control handwheel to alter the temperature of the

blended water as desired. Underneath the base are the two inlet pipes, that is for steam and hot water respectively, having strainers and non-return valves, as already indicated, and a vertical discharge pipe for the hot water with valve control. Each of the vertical inlet pipes leads to a rotary valve operating horizontally, closing or unclosing an inlet port, which in the case of the steam supply is screened to give more uniform distribution, discharging over a baffle plate to a separate upper portion of the casing or mixing chamber. In the latter, fixed horizontally, are two heavy bi-metal strip coils formed of two non-corrosible alloys of greatly different coefficients of expansion. These coils operate as a single unit, being fixed at one end to a spindle and at the other to linkwork which operates the two rotary valves. As the temperature of the heated water varies the twin coils auto-



Typical installation of the thermostatic steam and cold water mixer

matically close the cold water inlet and correspondingly open the steam inlet, or vice versa. If the cold water supply should fail, the valve automatically closes down almost immediately as the temperature begins to rise above normal.



## COLLECTING BROOM

by Elizabeth Hess, N.D.H. (Agricultural Organiser to the National Federation of Women's Institutes)

A FEW months ago I wondered what a ton of broom looked like, and whether it was beyond my powers to organise its collection. Now I not only know what four tons of freshly-cut broom look like, but also what half-a-cwt., carried on the back, feels like.

### Organising the Collection

I undertook to organise the collection of broom at the suggestion of the Director of the Royal Botanic Gardens, Kew, and with the permission of the executive committee of the N.F.W.I., knowing that unless I could get a complete ton collected, it would not be possible to arrange for its transport. With the help of one of the Regional Officers of the Forestry Commission I discovered a large plantation near Brandon, Suffolk, which proved to be ten acres in extent and densely planted. It was bounded on one side by a main road and was within reasonable distance of the drying sheds of Stafford Allen & Sons, Ltd., who promised to collect the broom, provided at least one ton was collected. The next thing was to get the labour. I tried the local Women's Institute, Girl Guides, Boy Scouts and Youth Squads, but for good reasons none of these was able to give much help. Distances between villages and towns in Suffolk and Norfolk are great, and nearly everyone had other work on hand. After much searching and a good deal of discouragement, I tried the Thetford Grammar Schools, which were about  $4\frac{1}{2}$  miles away. The response from both schools was encouraging, and I was invited to address the senior boys and girls on the subject. It seemed impossible to get much done in term time, but the Easter holidays, coming as they did at the beginning of April, offered scope to the apparently limitless energies of the boys and girls.

### Equipment

We started at 9.30 a.m. on April 2, and continued throughout the week-end, including Easter Monday. The only equipment necessary was a spring balance, a 7-lb. ball of binder twine, and a few light bill-hooks, which were lent by the district officer of the Forestry Commission, who gave us every possible assistance. The bill-hooks necessitated the purchase of a small first-aid set, which was in use only

on the first day, the workers later acquiring the knack of wielding them safely. The girls preferred to pick the broom with their hands, and a few boys had jack-knives, secateurs, but those who used the bill-hook from the first day clung to them with fiercer determination, and I imagine would have been prepared to use them in self-defence had any one attempted to take them away. About thirty children, aged from twelve to sixteen, assembled each morning for the day's work, complete with food for the day. They worked in four teams each under a leader, who was responsible for seeing that the bundles were tied securely and brought to the "base camp" to be weighed. The weights were recorded on four columns and the bundles put in four heaps by the fence ready for loading.

### Competitive Efforts

I asked myself many times what made those children work so hard and so quickly. Was it the thought of the money they were earning or was it the knowledge of the shortage of drugs in the country? I think it was neither of these reasons, but the sheer joy of seeing their own pile of broom the fence grow just a little larger than the others, and when the day's totals were recorded there was often a sudden rush into the bushes again to get a few more pounds to make the total up to a level called for. The lorry arrived on Saturday at 4 p.m. and took away well over two tons. It was packed extremely well by men who obviously knew their job, but I would not have cared to drive that unwieldy load far. The second load was taken away on Easter Monday. Altogether the children had gathered and tied in bundles, each weighing about 15 lb., the amount already mentioned, namely four tons of broom.

Pay day came when the last load had been removed, and about thirty weary but happy children gathered round to receive wages at the rate of 5s. per cwt. Some, who had worked throughout the whole time, earned 10s. or more. The team-work was exceptionally good, and because of the children's enthusiasm work continued until the plantation was finally cleared, the work of the last three days being supervised by one of the older boys. Thus valuable material for medicines has been saved.

## TRADE REPORT

ot quotations for pharmaceutical chemicals; crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency

28 Essex Street, W.C.2, April 15

RATHER quiet tone persists in most markets, but a fair volume of business continues for the home consuming trades, and prices are well maintained. Many merchants report that, while they are kept busy dealing with numerous inquiries, the amount of business that develops is disappointing. A special announcement has been issued by the Ministry of Supply relating to the distribution of several important crude drugs shipped to this country under the Lease-Lend arrangements from the United States. The names of the drugs and the prices at which they will be sold to users will be found on p. 444. A very limited volume of business continues in the PHARMACEUTICAL CHEMICALS section, and quoted prices show little alteration. Blocks, in several instances, are reported to be rather low. BENZOIC ACID and BENZYL BENZOATE may be had for medicinal purposes. GALIC ACID is dearer. Ample supplies of  $\beta$ -PHENYLISOPROPYLAMINE are available from British makers. PILOCARPINE and SALTS are unchanged since the last advance. Any available supplies of ANNIC ACID would be rather dearer. Makers' prices for VANILLIN are unchanged.

### Crude Drugs

A fair amount of inquiry has been received for these commodities, but little actual business has developed. Prices are generally maintained. Japanese AGAR is hardly mentioned on the market, but small supplies are still available. No change has occurred in the position of ANTIMONY. BECA NUTS seem practically cleared. CASAM OF TOLU is firmer and in poor supply. Demand for BUCHU has been fair. At the request of the Ministry of Supply, CAMPHOR BLOCKS are no longer being made by English manufacturers, as the Ministry considers that this form of camphor is non-essential. There are no spot supplies of CANTHARIDES. CARDAMOMS is quiet and without quotable change. CHILLIES are ready at the advance noted last week. Quotations are available for COLOCYNTH. Sellers of DERRIS ROOT still await permission to sell. Ample supplies of ERGOT are available at unchanged prices. GINGER remains nominal, pending the fixing of

official maximum prices. Business in MENTHOL has been unimportant. PIMENTO shows a further small advance on spot. Quiet conditions are reported for SHELLAC.

### Essential Oils

A limited volume of business is recorded in essential oils, but the general tone is steady. Small routine sales are noted for ANISE (STAR), with prices at the levels indicated last week. Spot prices of BAY are unchanged, although supplies are restricted. CAJUPUT is firm but without alteration. CASSIA is unobtainable. CITRONELLA remains firm but without quotable change. Supplies of CLOVE are restricted, but no notification has been received from English distillers of any alteration in price. LIME is firm and in small supply. There has been plenty of inquiry for Chinese PEPPERMINT. WORMSEED is nominal.

### Exchange Rates on London

The following were Bank of England fixed rates at the opening on April 15: New York, 4.03 dollars; Montreal, 4.45 dollars; Lisbon, 100 escudos; Stockholm, 16.90 kroner; Zurich, 17.35 francs; Buenos Aires, 17.04½ paper pesos; Netherlands West Indies, 7.60 florins. The official Madrid rate remains at 40.50 and the free rate at 46.55 pesetas. Chinese national dollar is at 3½d.

## Pharmaceutical Chemicals

ACETANILIDE.—Supplies are restricted but prices are unchanged. B.P.C. crystals and powder, from 2s. 4d. to 2s. 6d. per lb., according to quantity.

ALLOBARBITONE.—Makers continue to quote at around 60s. per lb.

AMIDOPYRINE.—Any small available supplies would be worth around 45s. per lb.

ATROPINE.—There are no changes in makers' prices, details of which were given last week (p. 422).

BENZALDEHYDE.—Supplies are restricted, but prices are unaltered at between 5s. and 5s. 6d. per lb.

BENZOIC ACID.—Fair supplies are available for medicinal purposes at about 2s. 6d. to 3s. per lb., according to quantity.

BENZYL BENZOATE.—Adequate supplies are stated to be available for medicinal preparations, the price being in the region of 4s. 6d. to 5s. per lb.



**BISMUTH SALTS.**—As noted last week, subgallate has been advanced by threepence per lb. Other prices are unchanged:—

Salt	Under 4 lb.	4 lb. and under 8 lb.	8 lb. and under 28 lb.	28 lb. and under 1 cwt.	Not less than 1 cwt.
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
Carbonate ..	11 3	10 9	10 0	8 7	8 4
Citrate ..	13 4	12 10	12 1	10 4	10 1
Nitrate,cryst.	7 7	7 1	6 4	5 7	5 4
Oxide ..	15 4	14 10	14 1	12 0	11 9
Salicylate ..	11 9	11 3	10 6	9 0	8 9
Subchloride	14 11	14 5	13 8	11 8	11 5
Subgallate ..	13 1	12 7	11 10	10 4	10 1
Subnitrate ..	9 11	9 5	8 8	7 6	7 3

Rebate of threepence per lb. allowed off 1-cwt. prices on sales of not less than 2 cwt., or against contracts of not less than 2 cwt., provided whole of contract quantity is ordered within three months. Contracts subject to rise-and-fall clause. Prices net; payments in fourteen days. For quantities of 28 lb. and upwards, in the home trade, an extra charge of threepence per lb. is made for 1-lb. cartons and 1-lb. parcels, even when repacking into cartons or parcels is effected by purchaser. Smaller quantities than 28 lb. are not subject to this extra charge. Under present conditions all prices and sale terms are without engagement.

**BORAX and BORIC ACID.**—The latest price change occurred on November 24, 1941, when prices were standardised, as follows:—

	Commercial	B.P. quality
	per ton	per ton
<b>BORAX:</b>		
Granulated ..	£31 10s.	£39 10s.
Crystal ..	£32 10s.	£40 10s.
Powder ..	£33 0s.	£41 0s.
<b>BORIC ACID:</b>		
Granulated ..	£52 15s.	£60 15s.
Crystal ..	£53 15s.	£61 15s.
Powder ..	£54 15s.	£62 15s.

Packed in one-cwt. bags, delivered carriage paid Great Britain, in one-ton lots and upwards.

**CITRATES.**—Makers' prices are without change on the week. For details of current schedule, see *C. & D.*, April 11, p. 423.

**COCAINE.**—British makers' current wholesale prices are as follows: **HYDROCHLORIDE** and **NITRATE**, 25 oz. and over, 35s. 8d.; 16 oz. and less than 25 oz., 36s. 10d.; over 8 oz. and less than 16 oz., 38s. per oz. **ALKALOID**, **CITRATE**, and **SALICYLATE**, 25 oz. and over, 39s. 1d.; 16 oz. and less than 25 oz., 40s. 4d.; over 8 oz. and less than 16 oz., 41s. 7d. per oz., 16-oz. packages free, smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: **HYDROCHLORIDE** and **NITRATE**, 8 oz., 40s.; 4 oz. and less than 7 oz., 40s. 7d.; 2-oz. and less than 4 oz., 41s. 6d.; 1 oz. and less than 2 oz., 42s. 7d.; ½ oz. and less than 1 oz., 44s. 2d.; ¼ oz. and less than ½ oz., 47s. 3d. per oz. **ALKALOID**, **CITRATE** and **SALICYLATE**, 8 oz., 43s. 5d.; 4 oz. and less than 8 oz., 44s.; 2 oz. and less than

4 oz., 44s. 11d.; 1 oz. and less than 2 oz., 46s. 2d.; ½ oz. and less than 1 oz., 47s. 9d.; ¼ oz. and less than ½ oz., 50s. 10d. per oz., packages extra. Re-sale: Sales are subject to buyer's undertaking not to re-sell any quantity below scale current at time of re-sale. Export prices vary according to destination.

**GALLIC ACID.**—Dealers' price would be in the region of 6s. 6d. to 7s. per lb.

**GLYCERIN.**—Current rates for small quantities are as follows: 1-cwt. drum, 86s. per cwt.; 56-lb. tin, 94s.; 28-lb. tin, 97s.; 14-lb. tin, 100s. per cwt. All prices are subject to discount of 2½ per cent. for cash in twenty-eight days.

**MERCURIALS.**—Controlled prices for quantities up to two cwt. are as follows:—

Mercury compound	Over 7 lb. but less than 28 lb.	28 lb. and over but less than 1 cwt.	1 cwt. and over but less than 2 cwt.
	<i>s. d.</i>	<i>s. d.</i>	<i>s. d.</i>
Bichloride, powder ..	12 0	11 8	11 7
Bichloride (industrial quality) ..	12 0	11 8	11 7
Bichloride, lump ..	12 7	12 3	12 2
Ammonium chloride, powder ..	13 10	13 6	13 5
Ammonium chloride, lump ..	13 8	13 4	13 3
Chloride (mercurous) ..	14 2	13 10	13 9
Oxide, red crystalline, B.P.	15 11	15 7	15 6
Oxide, red levigated, B.P.	15 5	15 1	15 0
Oxide, red technical ..	All quantities—14s. 8d. per lb.		
Oxide, yellow levigated, B.P.	15 4	15 0	14 11
Oxide, yellow technical ..	All quantities—14s. 4d. per lb.		

Packages free for quantities of 28 lb. and over; delivery free on orders of £20 and over.

**MERCURY IODIDES.**—Makers' prices are steady: **RED**, less than 7 lb., 17s. per lb. not less than 7 lb., 16s. 8d.; not less than 14 lb., 16s. 2d. **GREEN**, less than 7 lb., 19s. not less than 7 lb., 18s. 8d.; not less than 14 lb., 18s. 2d. **YELLOW**, less than 7 lb., 20s. 8d. not less than 7 lb., 20s. 4d.; not less than 14 lb., 19s. 10d. per lb. net, carriage paid.

**METHYL SALICYLATE.**—Makers' quotations are without change on the week: Five cwt. 1s. 10d. per lb.; one cwt., 1s. 10½d.; smaller lots, in bottles, 2s. 0½d. per lb.

**PHENAZONE.**—About 19s. per lb. would be the value of any available small supplies.

**PHENOLPHTHALEIN.**—Makers quote as follows: Less than 7 lb., 4s. 3d. per lb.; 7 lb., 4s. 2d. 14 lb., 4s. 1d.; 28 lb., 4s.; 1 cwt., 3s. 11d.

**β-PHENYLISOPROPYLAMINE.**—Ample supplies are available at around 150s. per lb.

**PILOCARPINE.**—There are no changes in makers' prices: **BASE**,—25 oz., 26s. per oz. 4 oz., 26s. 6d.; 1 oz., 27s. **HYDROCHLORIDE**,—25 oz., 20s. 3d.; 4 oz., 20s. 9d.; 1 oz., 21s. 3d. **NITRATE**,—25 oz., 17s. 6d.; 4 oz., 18s.; 1 oz., 18s. 6d.

**POTASSIUM PERMANGANATE.**—For details of makers' prices, see *C. & D.*, April 11, p. 423.

**SALICYLIC ACID (B.P.).**—Makers' prices are steady at the recent increase:—

n containers of	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb.	2 8½	—	—	—	—
From 4 lb.	2 7½	2 5½	—	—	—
From 7 lb.	2 6½	2 4½	2 4½	—	—
From 14 lb.	2 5½	2 3½	2 3½	2 3	—
From 28 lb.—1 cwt.	2 4½	2 2½	2 2½	2 2	2 1½
5 cwt.	2 0½	1 10½	1 10½	1 10*	1 9½

\* 8 × 14 lb. and upwards, in one delivery, ¾d. per lb. ss. Prices include parcels or collapsible cartons; other packages charged extra. Prices subject to buyer's undertaking not to re-sell any quantity at prices or terms below scale current at time of re-sale.

**SANTONIN.**—Convention prices for the home trade are quoted unchanged: 15 kilos and over, 46 10s.; not less than 10 kilos, £47 5s.; not less than 5 kilos, £48 5s.; less than 5 kilos, £50 per kilo, delivered free in the United Kingdom; 1-kilo packages free.

**SODIUM SALICYLATE.**—No further changes have been notified in makers' prices:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
	s. d.	s. d.	s. d.	s. d.	s. d.
Under 4 lb.	3 1½	—	—	—	—
From 4 lb.	3 0½	2 10½	—	—	—
From 7 lb.	2 11½	2 9½	2 9½	—	—
From 14 lb.	2 10½	2 8½	2 8½	2 8	—
From 28 lb.	2 9½	2 7½	2 7½	2 7	2 6½
From 1 cwt.	2 4½	2 2½	2 2½	2 2*	2 1½
From 5 cwt.	2 4	2 2½	2 1½	2 1½*	2 1
ton	2 3½	2 1½	2 1½	2 1*	2 0½

\* 8 × 14 lb. and upwards, in one delivery, ¾d. per lb. ss. Prices include parcels or collapsible cartons; other packages charged extra. Prices subject to buyer's undertaking not to re-sell any quantities at prices or terms below scale current at time of re-sale.

**STRYCHNINE SALTS.**—British makers' prices are detailed last week (p. 423).

**TANNIC ACID.**—Prices are now at about 7s. 7s. 6d. per lb. for restricted supplies.

**VANILLIN.**—No changes have occurred in makers' prices: Ex clove oil or guaiacol, five wt., 22s. 6d. per lb.; one cwt., 22s. 9d.; 6 lb., 23s.; less than 56 lb., 23s. 3d. carriage paid in U.K. Tins in cases returnable.

## Crude Drugs

**ACONITE ROOT.**—Supplies are now restricted, at demand is small. Dealers' price for any available small lots would be in the region of . per lb.

**AGAR.**—This product is not often mentioned in the market. There appears to be a little restricted Kobe No. 1 still available on spot around 65s. to 75s. per lb., and some bacteriological at approximately 25s. to 30s. per lb. Very small supplies for medicinal use may also be had at about 50s. per lb.

**ALOES.**—Cape, in small supply, would be worth about 55s. to 57s. 6d. per cwt., on spot, according to holder. The forward price of Curaçao remains at 450s. per cwt.

**ANTIMONY.**—There has been little change in this item. The price of English minimum 99 per cent. regulus remains at £120 per ton, delivered; 70 per cent. for home trade, £100 per ton, delivered.

**ARECA NUTS.**—Spot supplies seem to be practically cleared, the last price mentioned being in the neighbourhood of 7½d. per lb.

**BALSAMS.**—Spot prices of *Tolu* are firmer at about 9s. 3d. to 9s. 6d. per lb., with supplies restricted. Other varieties are unchanged, as follows: *Copaiba*, B.P., 9s. per lb., nominal; *Peru*, about 7s. 9d. per lb.; *Canada*, about 7s. 6d. per lb., ex store U.K., duty paid.

**BENZOLIN.**—Demand has been moderate, with regular dealers selling Sumatra on spot at from £12 to £14 per cwt., according to quality. The price of free almond would be in the region of £30 per cwt.

**BISMUTH METAL.**—High-grade unchanged at 6s. 3d. per lb. for minimum 5-cwt. lots.

**BUCHU.**—Demand has been fair, but stocks are in small compass. Fair green rounds, on spot, would be worth around 6s. per lb.

**CALUMBA ROOT.**—Spot supplies of good washed root should be obtainable at approximately 160s. per cwt.

**CAMPHOR.**—Inquiry has again been fair. Prices of Chinese B.P. powder and Japanese slabs to approved buyers would be in the region of 11s. 6d. per lb.; Chinese crude (92 per cent.) would be worth about 10s. per lb. Restricted quantities of English synthetic, B.P., are understood to be available to approved consumers at 7s. per lb. The manufacture of camphor blocks by the English makers has ceased at the request of the Ministry of Supply, the Ministry considering that this form of camphor is non-essential.

**CANTHARIDES.**—Spot supplies appear to be exhausted, and no quotations are available.

**CARDAMOMS.**—The quiet tone continues, with values of all descriptions unchanged. Current prices are as follows: Spot, Aleppy greens, 5s. 3d. per lb.; Aleppy seed, 6s.; Bombay seed, 5s. 6d.; Mangalore seed, 6s.; shipment, Aleppy greens, 4s. per lb., c.i.f.; Bombay seed, 4s. 10d., c.i.f.; Mangalore bleached A, 5s. 3d., c.i.f.; Mangalore bleached B, 4s. 9d. per lb., c.i.f.

**CASCARA SAGRADA.**—Inquiry has been good, but buyers are awaiting information regarding distribution of Lease-Lend supplies (see p. 444). In the meantime, small quantities are selling on spot at around 210s. per cwt. for 1941 peel and about 250s. for peel a year older.

**CASCARILLA.**—Dealers' price for quills would be approximately 3s. 3d. per lb., and for siftings, about 2s. 6d. per lb.

**CHILLIES.**—Steady at the advanced prices recorded last week. Zanzibar, spot, 180s. per cwt.; Mombasa, sellers at the same figure; Sierra Leone and Sudan, both 175s. per cwt., duty paid.



**CLOVES.**—Position unchanged. Spot sellers of Zanzibar at 2s. 4d. per lb.; Madagascar, unquoted.

**COCHINEAL.**—Supplies are restricted, but some grey on spot is stated to be available at about 5s. per lb.

**COCOA BUTTER.**—The official maximum price remains at 1s. 5½d. per lb., ex factory or warehouse, except under Ministry of Food licence.

**COCONUT (DESSICATED).**—The maximum price, as fixed by a Ministry of Food Order, is 49s. per cwt.

**COLCHICUM.**—Small spot supplies of Indian corins are quoted by dealers at about 2s. 9d. to 3s. per lb.

**COLOCYNTH.**—Spot supplies appear to be exhausted and no quotations are available.

**DANDELION ROOT.**—Dealers quote Indian root on spot at between 125s. and 135s. per cwt., according to quantity.

**DERRIS ROOT.**—The position is unchanged, with holders still awaiting permission to sell.

**DIGITALIS LEAVES.**—Portuguese are offered on spot at approximately 105s. to 110s. per cwt., ex store, according to quantity.

**DRAGON'S BLOOD.**—The price of fair re-boiled is nominal at £40 per cwt., with stocks extremely restricted.

**ERGOT.**—Conditions remain quiet, with spot in ample supply at about 7s. 6d. per lb.; no change has occurred in shipment, which remains at about 7s. per lb., c.i.f.

**GINGER.**—Quotations are nominal, pending the fixing of maximum prices by the Ministry of Food. West African, spot, 185s. per cwt.; Cochinchina, unwashed, spot, 182s. 6d. quoted.

**GRAINS OF PARADISE.**—Some spot supplies are available at approximately 1s. 10d. per lb.

**GUM ACACIA.**—Demand has been fair, but prices are without quotable change. Kordofan cleaned sorts, spot, unrestricted, 225s. per cwt., nominal; restricted, 200s. per cwt.; shipment, 70s. per cwt., nominal, c.i.f.

**IPECACUANHA.**—Firm, but about unchanged. Matto Grosso, spot, about 18s. 3d. per lb.; shipment, 16s. 6d. to 17s. per lb., c.i.f. Minas, spot, about 12s. 3d. per lb.; shipment, around 11s. 3d. to 11s. 6d. per lb., c.i.f. Current prices for EXT. IPECAC. LG., in winchester quarts, are as follows: B.P., 1932, under three, 26s. per lb.; three and under six, 25s. 6d.; six and under twelve, 25s.; twelve and over, 24s. 6d. per lb. B.P., 1914, under three, 24s. per lb.; three and under six, 23s. 6d.; six and under twelve, 23s.; twelve and over, 22s. 6d. per lb., all prices net.

**JABORANDI.**—Fair quantities would be worth about 55s. to 60s. per cwt. on spot, but single bales would be at higher rates.

**LIGUORICE ROOT.**—Some Russian root is available on spot at £60 per ton.

**MENTHOL.**—Business has been unimportant and spot prices of Chinese are steady at around 71s. to 72s. 6d. per lb. Some Japanese is stated to be still available at about 74s. 6d. per lb.

**MERCURY.**—Prices for quantities of over 7 lb are subject to the Control of Mercury (No. 6 Order (C. & D., May 10, p. 295). Quantities of 7 lb. and under were decontrolled by the Control of Mercury (No. 7) Order (C. & D., October 18 p. 86). Official prices range between £48 and £48 15s. per bottle of 76 lb., ex warehouse, London.

**NUX VOMICA.**—Cochin, washed and garbled is available on spot at approximately 37s. 6d. per cwt.

**ORANGE PEEL.**—Any available small supplies on spot would be worth about 3s. to 3s. 6d. per lb., according to grade and holder.

**PAPAIN.**—Small supplies can be had on spot at around 16s. to 17s. per lb.

**PEPPERS.**—The maximum spot price in bond of unpicked whole black Lampung is 5d. per lb. and of whole white Muntok 8d. per lb. Particulars of an Order amending the Pepper (Control and Maximum Prices) Order, 1941 were given in the C. & D., April 4, p. 398.

**PIMENTO.**—Spot shows a further small advance to 2s. 1½d. per lb., sellers; shipment April–May, 155s. per cwt., nominal, c.i.f.

**PODOPHYLLUM.**—The spot price of *Emod* 15 per cent., would be in the region of 70s. per cwt.

**QUASSIA CHIPS.**—Scarce. Spot value would be about 7d. per lb., if available.

**QUILLAIA BARK.**—Spot supplies appear to be non-existent, and no quotations are available.

**RHUBARB.**—Inquiry again fair, but quotations are unchanged. Rough-round, spot, about 7s. 3d. to 7s. 9d. per lb. Small supplies of Shensi might be obtainable on spot at around 9s. to 9s. 6d. per lb.

**SAPONIN.**—Quoted for May–June shipment at 16s. per kilo, c.i.f.

**SARSAPARILLA.**—The spot value of an available supplies of native reddish would be approximately 3s. per lb.

**SENEGA.**—Holders of any small spot stock would require about 7s. 3d. to 7s. 6d. per lb.

**SENNA.**—Alexandrian medium hand-picked about 4s. 6d. to 5s. 6d. per lb.; Alexandrian leaves, siftings, about 1s. 3d. per lb.; Tinnevel pods, 1s. 3d. to 1s. 5d. per lb. for selected at about 8d. per lb. for f.a.q.

**SHELLAC.**—Business has been small, and prices are at the levels recently indicated. Standard TN orange, spot, 197s. 6d. per cwt. value; shipment, unquoted. Pure butte unquoted; fine orange, 240s. to 290s., quoted.

**SLIPPERY ELM BARK.**—Spot stocks appear to be exhausted. (See p. 444.)

**SQUILL.**—Supplies are adequate, but demand is quiet. Spot prices vary between 75s. and 90s. per cwt., according to colour.

**STRAMONIUM LEAVES.**—Indian leaves, spot, would be worth approximately 110s. per cwt.

**TONKA BEANS.**—Spot supplies are reported scarcer, with the price in the region of 6s. 3d. to 6s. 6d. per lb.

**TRAGACANTH.**—Values of medium grades are unchanged: No. 1, white, £150; No. 2, white, £135; No. 3, white, £115; pale leaf, £105; amber leaf, £85; red leaf, from £40; woody and puggy, from £25s. ex store.

**VALERIAN ROOT.**—Quiet, with supplies of Indian offered on spot at about 115s. per cwt., x store.

**WAXES.**—**BEE'S.**—Nominal on spot at 295s. per cwt.; in bond, no quotations; **Dar-es-salaam**, no quotations; **Japanese**, 335s. **ARNAUBA.**—Fatty grey, 525s.; chalky grey, 10s.; **Primeira**, 620s. per cwt.

## Essential and Expressed Oils

**ANISE (STAR).**—Small routine business, with prices steady. Spot, tins in cases, about 51s. to 2s. per lb.; odd drums, about 50s. to 51s. per lb.

**BAY.**—Supplies are restricted, but values are steady. Spot, approximately 10s. to 12s. per lb.

**BOIS DE ROSE.**—About 27s. to 30s. per lb. could represent the current spot price.

**CAJUPUT.**—Any oil on spot would be firmly held for about 15s. per lb.

**CANANGA.**—In poor supply, with spot price nominal at 60s. per lb.

**CASSIA.**—No spot stocks are available to meet the sustained demand.

**CEDARWOOD.**—Nominal at 6s. 6d. per lb., spot.

**CITRONELLA.**—Ceylon remains firm at approximately 16s. 3d. per lb.; Java, spot, nominal at 5s. per lb.

**CLOVE.**—Supplies are short, but English stillers' prices are unchanged at between 18s. 6d. and 18s. per lb.

**EUCALYPTUS.**—Current spot value of 70 to 75 per cent. oil would be 5s. 9d. to 6s. per lb., with higher prices for small quantities.

**GERANIUM.**—Prices are nominal and would have to be negotiated.

**GINGERGRASS.**—Spot supplies are available around 25s. per lb.

**GROUNDNUT.**—The official price of refined oil is £44 10s. per ton, naked ex works.

**LAVENDER.**—Any good-quality oil on spot would be worth about 85s. per lb.

**LEMONGRASS.**—Spot value would be in the range of 18s. 6d. per lb.

**LIME.**—Firm at about 62s. 6d. per lb. for small supplies of genuine West Indian.

**LINSEED.**—The official price of crude is changed at £41 10s. per ton, naked ex works.

**PALMAROSA.**—Shipment price would be about 3s. per lb., c.i.f.; spot, around 35s. per lb.

**PATCHOULI.**—Spot, nominal at 60s. per lb.

**PEPPERMINT.**—Demand has been fair, but few supplies of Chinese are becoming more difficult to find. Some business is reported on spot at 77s. to 80s. per lb., according to dealer.

**PETITGRAIN.**—Any available spot supplies would be valued at about 25s. per lb.

**PINE.**—The following are the maximum prices recently fixed by the Ministry of Supply for oil in containers supplied by seller: 5 gall., 8s. 5d.; 10 gall., 8s. 2d. per Imperial gallon, both duty paid, ex store or warehouse, for net cash. A reasonable extra charge may be added for credit.

**SANDALWOOD.**—Genuine East Indian Mysore remains at 30s. per lb., for delivery in one-case lots. Australian would be at about 28s. 6d.

**THYME.**—Medium-quality oil would be worth about 16s. per lb. on spot, but higher phenol-containing oils would be dearer.

**TURPENTINE.**—The following maximum prices were fixed recently by the Ministry of Supply: In containers supplied by seller, 5 gall., 7s. 11d.; 10 gall., 7s. 8d. per Imperial gallon, both duty paid, ex store or warehouse, for net cash. A reasonable extra charge may be added for credit.

**WORMSEED.**—Spot prices are nominal at 25s. per lb.

## COMMERCIAL NOTES

**Bermuda Customs Modification.**—Antitoxins, vaccines, viruses, serums and bacteria used for therapeutic purposes are now admitted to Bermuda without customs tariff charges.

**British Guiana Drug Imports.**—Imports of drugs and medicines into British Guiana during 1941 were valued at 216,831 dollars, compared with 215,255 dollars in the preceding year.

**Argentine Chemicals Imports.**—Imports of chemicals, oils, paints, etc., into the Argentine during 1941 were valued at 93,297,000 pesos, against a value of 91,919,000 pesos in the previous year.

**Mexican Drug Prices Increased.**—Prices of medicinal and pharmaceutical products in Mexico have been increased by 50 per cent. as from January 1, making a total increase of over 200 per cent. since 1939.

**Netherlands Indies Palm Oil.**—Exports of palm oil from the Netherlands Indies totalled 38,281 metric tons, valued at 1,435,000 guilders, during the second quarter of 1941, compared with 38,352 metric tons, valued at 2,885,000 guilders in the corresponding period of 1940.

**Venezuela Mercury Production.**—The United States Department of Commerce states that the Compañía Anónima Minerales de San Jacinto, the company formed in Caracas in April 1941 to exploit and develop cinnabar deposits in Venezuela, expected to begin treating the ore late in January of this year. A monthly production of 100 flasks is anticipated.



## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

### Post by Noon

SIR,—The executives of many large business firms do not get their morning mail until 10 a.m. It is not, therefore, possible for a business man to do a day's work in two hours—except in the case of small firms, when the morning's mail may consist of only half-a-dozen letters. In my case, before I can reply to my correspondence, I have to phone our works for stocks, etc., and then telephone to various firms in London for samples, prices, quantity of goods, etc. In many cases it is advisable to see the firms personally. I used to be able to make a dozen calls in half an hour in the lanes of the City of London but, since the blitz, it now takes me an hour to see half-a-dozen firms spread over various parts of the City. Owing to shortage of staff, it is frequently 3 p.m. before I can dictate my letters. They are then typed out the next morning in time for the noon post—a day late. Letters to our representatives in all parts of the country are sent by the midday post, with the result that if anything comes through for them in the afternoon it is kept back till the next day, and so they get the information a day late. The best and most sensible way to popularise the noon post is to reduce the postage—letters posted before noon should be stamped 2d. and postcards 1d.

Yours faithfully,  
S. E. A.

### Confidence and Unity

SIR,—We, the undersigned members of the Association of Pharmaceutical Employees, were chosen by the pharmacist members of the Association as the official candidates of the A.P.E. at this year's Council election, which has been postponed at the request of the Council. Having been denied the opportunity of putting our policy before the electorate, we desire to express our views concerning the election. Much has been printed on the question of unity in pharmacy, and it is implied that the attitude of the A.P.E. on the holding of Council elections does not foster unity. In the life and death struggle in which we are engaged unity in effort is an obvious essential for success. The A.P.E. is at one with

other interests in wishing to see that unity made into a reality in pharmacy, but there can be no foundation for it whilst employees are deprived of their rightful share in the administration of their profession. There can, moreover, be no unity behind the leaders of pharmacy—the Council—unless and until those leaders have the confidence of the rank and file members. If there is any measure of doubt as to that confidence, then it is the obvious duty of the Council to place the issue squarely before the members of the Society, instead of sheltering behind hastily introduced legislation. On the question of the Pharmacy and Medicines Bill alone, to say nothing of the resolutions sent up by Branches of the Society protesting at the postponement of the elections and even calling for the resignation of the whole Council, it is clear that the Council as at present constituted has not the confidence of members which even in peace-time is necessary for effective leadership. Can it be doubted, therefore, that the action of the Council was indeed one of arbitrary disfranchisement? It is a principle accepted by the Government, which the A.P.E. has stated before and which we here re-state, that there should be adequate employee representation, through recognised trade unions, on bodies concerned with the welfare of employees. We contend that this principle applies to the Society with its 50 per cent. employee membership, and that facilities should be afforded for employees to elect their representatives on to the Council. The difficulties advanced against the holding of elections have been magnified out of all proportion to their true value. The money and labour required are small compared with the value of elections and with the Society's annual expenditure. Paper could be saved by printing the ballot form on a sheet of the "Journal," and this would go far to overcome the difficulties of distribution. We maintain that if the will to hold elections was in the mind of the Council, then any attendant war-time difficulties could and should be overcome. That is the spirit which wins wars and which should activate everyone in pharmacy.

Yours faithfully,  
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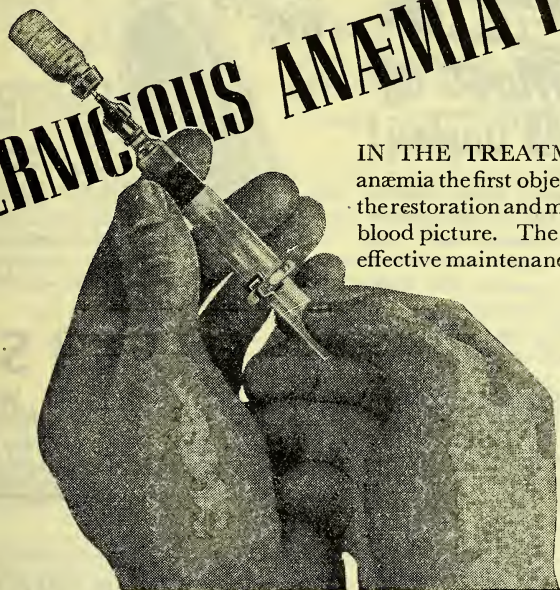
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Solution: 1 in 100 and 1 in 1000. Ampoules: 1 in 1000.

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LIQUID 40 c.c. bottle .. .. .	3/4½	2/1½	+	4½	25/3	+	4/3

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20 gr. Nozzled tube .. .. .	3/4½	2/1½	+	4½	25/3	+	4
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Box of 50 ampoules .. .. .	19/-	13/3½	None	159/7	Non	Non	Non
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Tin of approx. 2½ ozs. .. .. .	2/10	1/11	+	4	22/6	+	3/6
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MEDICO-BIOLOGICAL LABORATORIES LTD., LONDON, S.E.2

# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

APRIL 18  
1942

28, ESSEX STREET, LONDON, W.C.2

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**CONTAINERS** for same, 2/- doz.

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Terms: C.W.O. or C.O.D. 1/- extra.

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**PART-TIME** Employment offered to a person accustomed to General Retail Pharmacy work, Saturday, Thursday and Sunday evenings (or other mornings and evenings). Gwilym J. Lloyd, 448 Kingsland Road, London, E.8.

**PHARMACY.** Qualified Chemist required (male or female). Dispense and Counter. State age, experience and salary required; with copy testimonials only. Abersychan and Pontypool Co-operative Society, Ltd., Hanbury Road, Pontypool, Mon.

**QUALIFIED** and Unqualified Assistant (either sex) required. Dispensing and Counter. Permanency. No Sunday or holiday duty. Please state age, experience, salary required, and when free, to Manager, Pharmacy Department, Ipswich Industrial Co-operative Society, Ltd., 38 Carr Street, Ipswich.

**QUALIFIED** and Unqualified male and female Assistants required for holiday relief. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy."

**SALESMAN** wanted for Surgical Stores West London, also one for busy South Coast Town. Must have Counter Sales experience and be exempt. Suitable applicant would be trained. Wages, commission and bonus. Write stating age, experience and wages expected, Box 104, Harwood's, 265 Strand, London, W.C.2.

**STOKE-ON-TRENT.** Qualified Manager, Lady or Gentleman, exempt from military service, required immediately. Good salary and share of profits. Full particulars to 401/703, London Office of this Paper.

**TAYLORS BRITISH CHEMISTS** have vacancies for qualified Managers and Assistants in Glasgow and other parts of Scotland. Please give full particulars in first letter, stating best time and day for interview to Austin, 1 St. Enoch Square, Glasgow, C.1.

**TAYLORS BRITISH CHEMISTS** will shortly have vacancies for qualified Managers and Assistants, male or female, in Liverpool, Birkenhead, Birmingham, Midlands, Huddersfield, Durham, Bury, Hull, Sheffield, Leeds. Apply Retail Staff Dept., Burley Hill, Leeds.

**TIMOTHY WHITES & TAYLORS** require qualified Staff, male and female, for Branch Managements throughout the South of England, including Barnstaple, Camborne, Portsmouth, etc. Good salaries and commission. Apply in writing to Retail Drug Dept., 70 Vauxhall Bridge Road, London, S.W.1.

**UNQUALIFIED.** Vacancies exist in our branches at Dartford and Gillingham for Unqualified Assistants (male or female) with Dispensing experience. Good salary, commission. Permanency. Apply in writing to the Retail Drug Department, Timothy Whites and Taylors, Ltd., 70 Vauxhall Bridge Road, London, S.E.1.

**UNQUALIFIED Assistant** (either sex) for light Dispensing and Counter. High-class business, easy hours. Fare paid from Ireland or anywhere British Isles. Send full particulars, testimonials, salary, date free and snapshot first letter. Raymond Smith, 2 Cliff Road, Newquay, Cornwall.

**WANTED** immediately Qualified Manager or Assistant for good-class family and dispensing business (male or female). Good wages. Apply at once to Sheard, 9 Leeds Road, Harrogate. (Phone 2832.)

### WHOLESALE

**A CHEMIST** who is exempt from military service is required by firm of manufacturing chemists in West Country. Experience of mass production of injection solutions in bottles and ampoules an advantage; wholesale manufacturing experience essential. Write stating age, full details of qualifications, positions held and precise nature of duties 401/706, London Office of this Paper.

**CHEMIST**, qualified, wanted, lady or gentleman, for Ointments and Cosmetics. Write, giving fullest particulars of qualifications, experience, age, salary required, to 401/715, London Office of this Paper.

**EXPERIENCED Granulator** required for Medicinal Tablet and Pill Department of Manufacturing Chemists near London. Must be exempt from military service. Apply giving details of age, experience, and wage required to CDB/995, London Office of this Paper.

**EXPERIENCED Tablet and Pill Coaters** required for factory in S.E. London. Good wages for able women over 30 years. Apply stating experience, age and wages required. 401/708, London Office of this Paper.

**FOREMAN** required by Midland Manufacturing Chemists for Department manufacturing proprietary medicinal preparations, ointments, mixtures, coated tablets, etc. Must be exempt. Apply 1/714, London Office of this Paper.

Manufacturing Chemists require First-class Travellers with live connexion amongst Retail Chemists throughout London and Suburbs, also Home Counties, to carry their Proprietary lines. Liberal commission paid to right men. Every support can be given regarding deliveries. Write in confidence stating present lines carried and exact territory covered. CDB/997, London Office of this Paper.

Manufacturing Chemists require Travellers calling on Retail Chemists in every Town in Great Britain to carry their Proprietary lines. Must be well introduced and have live connexions. Generous commission paid to right men. Large stocks immediately available and every support forthcoming. Write in confidence, stating present lines carried and territory covered. CDB/998, London Office of this Paper.

**MANUFACTURING Chemists** are open to engage a Chemist having knowledge and experience of manufacture of synthetic drugs in wide demand or of great potential demand. Advertisers are open to provide necessary finance and remuneration. When full production established remuneration will be participation in profits. Write giving fullest possible particulars. 401/707, London Office of this Paper.

**Medical Propagandists** wanted in London, Suburbs, and throughout the country. Must be well introduced to Doctors, Hospitals and other Institutions, to introduce first-class non-competitive pharmaceutical products suitable to the medical profession. Every assistance given and excellent commission paid to the right men. Only those ready contacting the medical profession need apply. Write, stating territory covered. All replies will be treated confidentially. CDB/999, London Office of this Paper.

**PACKAGE Designer** required immediately by Manufacturing Chemists (controlled by Essential Drugs Order), knowledge of Pharmacy (Poisons Act) necessary. Export Casing experience an advantage. Apply 401/713, London Office of this Paper, stating age, experience and salary required.

**LL Maker** required for Manufacturing House, N.W. London. Permanency. Should be over forty age or exempt war service. State experience and wages required. CDB/994, London Office of this Paper.

**SAVORY & MOORE, LTD.**, have a vacancy for a Qualified Manager at their branch in Beaconsfield. There are also vacancies for Assistants (male or female) in their West-End Establishments. Qualification is not essential, provided the assistant has had sufficient experience in Pharmacy generally. Full particulars in first letter: age, experience, salary expected, and when free to H. F. Stapley, 61 Welbeck Street, London, W.1.

**TABLET Maker** required to take charge of Tablet Department. Firm on essential work. Applicants, who should have knowledge of Coating, must give details of experience and salary required to The Director, Hirst Brooke & Hirst, Ltd., Sheepscar Works, Leeds, 7.

**TABLET Maker** wanted, fully experienced. Send full details. 401/685, London Office of this Paper.

**WORKS MANAGER.** Qualified Chemist, exempt military service, required for a well-known London house manufacturing tablets, pills and packed goods. Excellent opportunity for man of ability and initiative. Must be good organiser and capable of controlling staff. Some previous manufacturing experience essential. The appointment offers considerable possibilities for advancement. Full details of experience, stating age and salary required. CDB/993, London Office of this Paper.

## SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

None of the advertisements below relates to a woman between 20 and 30 years unless such woman has living with her a child of her own under the age of 14; or is registered under the Blind Persons Act; or has a Ministry of Labour permit to allow her to obtain employment by individual effort.

## RETAIL (HOME)

**ASSISTANT** or Dispenser (54), London and provincial experience, Dispensing, Counter, Windows, Prescribing, Unregistered. Dispenser, Cwmnar, Llanybyther, South Wales.

## LOCUMS SEEKING ENGAGEMENT

**UNQUALIFIED**, available June 14-28. Good-class Retail, Dispensing, country or seaside. Hours, salary, please. 401/710, London Office of this Paper.

## WHOLESALE

**A DILIGENT** unqualified Chemist, Manager for six years, with remarkably good record, wishes to leave Retail. Would welcome work as medical propagandist, representative, laboratory assistant, or administration with London or Home Counties' firm. Age 30. Exempt. Work of national importance preferred. 401/711, London Office of this Paper.

**INDUSTRIAL Chemist**, 30, exempt, several years' practical experience, including Pharmaceutical products (research plant control), seeks position London area. 402/718, London Office of this Paper.

**MANAGER/COMPOUNDER.** Advertiser, ineligible, seeks position. Experienced Cosmetics (also medicated), Perfumery, and Proprietarys, including Compressed Tablets. 401/701, London Office of this Paper.

**MEDICAL Representation.** Advertiser, 42, wishes to represent firm of repute, London or provinces. Nine years present firm; good medical connexion, 401/700, London Office of this Paper.



**QUALIFIED** Representative is at liberty to undertake additional agencies on a commission basis in South Wales and the West of England. Hundreds of sound accounts, Chemists and Stores in 17 Counties. Regular systematic journeys. Highest credentials. 402/717, London Office of this Paper.

**REPRESENTATIVE** old-established connexion, present house 15 years, South-West England, part Midlands, requires good class lines. Commission basis. Drugs, Packed Chemists' lines, Proprietaries, etc. CDB/991, London Office of this Paper.

## BUSINESS WANTED

7/6 for 40 words or less, 2d. for every additional word.

**SMALL** Business with really good House. Small town, West or South-west England. Now near London. Mixed business no objection. Please give in confidence, full particulars of business and accommodation, and if possible send photo of shop. Sutherland, c/o Lyons, 23a Ventnor Villas, Hove.

## BUSINESS FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

**TERMINATION** of Lease, extermination of business. Shop-fittings, proprietary rights and labels, usual pharmaceutical equipment, residual stock, etc. Interviews between 2 and 5 (Wednesday excepted). Pharmacist, 137 Half Moon Lane, Herne Hill, London, S.E.24.

## FOR SALE (Retailers' Surplus)

7/6 for 36 words or less, 2d. for every additional word.

**SURPLUS STOCK.** Three gross one-drop bakelite perfume containers, various colours, 48s. per gross. Three gross smart black bakelite containers, white screw base; suitable medium-sized lipstick; 90s. per gross. Five gross fancy powder boxes, square, 2 oz. 56s. per gross. Cash with order. H. Poller, Chemist, 164 Wilmslow Road, Manchester, 20.

**1 CWT. AIRFIGHT TINS IN CASES.** Used only once for packing Milk Powder. Fully sealed tin with circular press-in lid, all free from rust. Strong cases slightly soiled externally. Apply CDB/913, London Office of this Paper.

## MISCELLANEOUS SALES

12/6 for 60 words or less, 1/- each additional 10 words or less

**ALKA LIMITED, Alka Works, Minerva Road, London, N.W.10. Specialists in tamperproof Metal Seals. Have spare machine capacity for priority jobs of large volume. Tel. Willesden 3870/3871.**

**GUM** Tragacanth Powder, B.P., pure white, 21s. per pound. Post paid. Cash with order. G. E. Betterton, 47 St. Leonard's Court, East Sheen, London, S.W.14.

**JARS.** 4-oz. Clear Glass Oval Jars, with White Enamel Screw Caps, 3s. 6d. doz. Cash with order. Carriage forward. H. S. Bottle Co., 29 Sherwood Hall, East End Road, London, N.2.

**RUBBER SOOTHERS.** 4-doz. lots, 20s., post paid. C. W. O. J. W. Staples, 69 St. John Street, Bridlington.

**2-CWT. Bism. Carb.; 6 lb. Phenazone; 2 lb. Menthol Xtals.** Apply Pharmacist, CDB/1001, London Office of this Paper.

## WANTED

7/6 for 36 words or less, 2d. for every additional word.

**ADVERTISER** wholesaler wishes to contact registered manufacturer of face powder, bath crystals, perfumes, nail varnish. Also requires 4-oz to 16-oz. jars and bottles, suitable haircream, brilliantine, nail varnish, etc. 398/604, London Office of this Paper.

**ADVERTISER** wishes to purchase Face Powder, Bath Crystals, Vanishing Cream, Hair Cream. Replies, CDB/1000, London Office of this Paper.

**ADVERTISER** wishes to purchase Copper Sugar-coating Pans, 28 in. to 40 in. diameter, complete with stands. Suitable pans without stands would be considered. Send full details. 401/709, London Office of this Paper.

**ADVERTISER** wishes to Purchase a Rotary Tablet Machine in any condition, or would consider hiring a suitable machine. Send full details 400/667, London Office of this Paper.

**GLASS** Pots, 1 oz., 2 oz. and 4 oz., with lids; also Tubes wanted; any quantity. 40 Bavaria Road, Upper Holloway, N.19.

**GREEN** or Amber, 3-dram, lipped, homeopathic Vials, any quantity, 2 or 3 dozen up to 6 gross also half ounce up to one gross. Howard, 3 Park Street, Beeston, Notts.

**OILS** or Fats and Glycerine, also Block Stearine wanted. Box 56, Pool's, Brettenham House, Lancaster Place, W.C.2.

**SACCHARIN** Tablets wanted. Any quantity. Write Dewhurst's, 63 Queen Street, Great Harwood.

**SACCHARIN** Tablets. Wanted to purchase in bulk full-strength Tablets in regular lots of up to £500 in value. B. Salter & Son, 34 Castle Street, Shrewsbury.

**WANTED** for Cash, Saccharin Tablets, full strength, bulk or packed any quantity, opaque glass jars, 1 oz. or 2 oz. W. Nicholas, Park Pharmacy, Aberdeen.

**WANTED** by England's largest photographic dealers, All Miniature Cameras, extra lenses and accessories, Rolleiflex, Leica, Contax, Ikonta, etc.; also Microscopes and Cine Projectors. Highest prices guaranteed. Wallace Heaton, Ltd., 127 New Bond Street, W.1.

**WANTED.** Manufacturing Chemists possessing Fine white flake Naphthalene to manufacture 100,000 tablets weekly. Size 1 in. x  $\frac{1}{2}$  in. thick approx. Write 401/705, London Office of this Paper.

**WANTED,** small quantity Fluted Lining Paper. Send sample and price to Stanley Institute Ltd., 265 Strand, London, W.C.2 HOL. 0784.

**WANTED.** Loofahs, Sponges, Permannanate Potash. Any quantity. United Sponge Co., 4 Royal Mint Street, E.1. Royal 6978.

## WANTED EXCHANGE

**WE** Sell or Exchange second-hand Albros, Gravitt 1-4 oz., Liquid Filling Machine, for an Automatic Tableting Machine. 402/710, London Office of this Paper.

## AGENCIES

**COMPANY** having valuable connexion in European Manufacturing, Selling and Distributing, is open to consider handling additional lines in any capacity. References and security available. CDB/996, London Office of this Paper.

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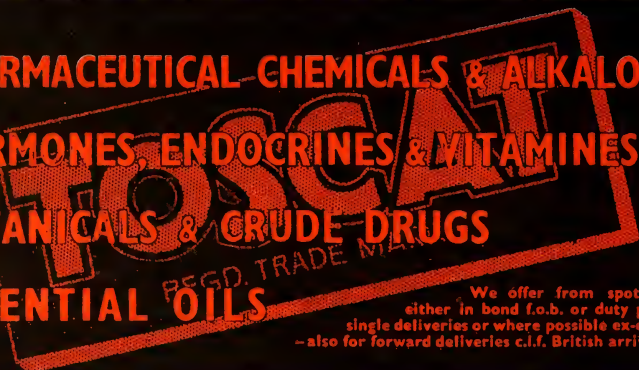
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